NAVY TACTICAL REFERENCE PUBLICATION

NAVY SUPPLEMENT TO THE DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS NTRP 1-02

EDITION AUGUST 2006

DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS

1

DISTRIBUTION RESTRICTION: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

PRIMARY REVIEW AUTHORITY: COMMANDER, NAVY WARFARE DEVELOPMENT COMMAND



URGENT C	URGENT CHANGE/ERRATUM RECORD		
NUMBER	DATE	ENTERED BY	

AUG 2006

INTENTIONALLY BLANK

AUG 2006 2



DEPARTMENT OF THE NAVY

NAVY WARFARE DEVELOPMENT COMMAND 686 CUSHING ROAD NEWPORT RI 02841 1207

August 2006

LETTER OF PROMULGATION

- 1. NTRP 1-02 (AUG 2006), NAVY SUPPLEMENT TO THE DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS, is UNCLASSIFIED. Handle in accordance with the administrative procedures contained in NTTP 1-01.
- 2. NTRP 1-02 (AUG 2006), is effective upon receipt and supersedes NWP 1-02 (JUN 1995). Destroy superseded material without report.
- 3. NTRP 1-02 (AUG 2006) establishes and standardizes the professional language used in the Navy Warfare Library. It applies to users of all Navy Warfare Library publications especially to those who develop them and teach from them.
- 4. NTRP 1-02 (AUG 2006) is approved for public release; distribution is unlimited.

AUG 2006

INTENTIONALLY BLANK

AUG 2006 4

		August 2006
	PUBLICATION NOTICE	ROUTING
1.	NTRP 1-02 (AUG 2006), NAVY SUPPLEMENT TO THE DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS, is available in the Navy Warfare Library. It is effective upon receipt.	
2.	The terminology in this publication supplements Joint Publication 1-02 (JP 1-02), Department of Defense Dictionary of Military and Associated Terms. It establishes and standardizes the professional language used in the Navy Warfare Library (NWL).	
3.	Terms found in JP 1-02 are not contained within this publication unless their definitions differ from the Navy usage nor are terms that are adequately defined in a standard collegiate dictionary.	
4.	While NTRP 1-02 draws heavily from NWL publication glossaries, it is not an NWL master glossary. Terms defined in this publication also come from the main body text of NWL publications that do not have glossaries and from widely used allied publications. Terms with a narrow or limited applicability are not included, nor are specialist terms that are defined in authoritative Navy and non-Navy technical documents and directives.	
5.	The terminology of NTRP 1-02 is to be adhered to unless a distinctly different context of the application is intended.	
	Navy Warfare Lib	orary Custodian

Navy Warfare Library publications must be made readily available to all users and other interested personnel within the U.S. Navy.

Note to Navy Warfare Library Custodian

This notice should be duplicated for routing to cognizant personnel to keep them informed of changes to this publication.

5 AUG 2006

INTENTIONALLY BLANK

AUG 2006 6

CONTENTS

	Page No.
CHAPTER 1 — INTRODUCTION	1-1
CHAPTER 2 — TERMS AND DEFINITIONS	2-1
CHAPTER 3 — ABBREVIATIONS AND ACRONYMS	3-1

7 AUG 2006

INTENTIONALLY BLANK

AUG 2006 8

PREFACE

NTRP 1-02, Navy Supplement to the DOD Dictionary of Military and Associated Terms, establishes and standardizes the professional language used in the Navy Warfare Library. It applies to users of all Navy Warfare Library publications — especially to those who develop them and teach from them.

Report administrative discrepancies by letter, message, or e-mail to:

COMMANDER
NAVY WARFARE DEVELOPMENT COMMAND
ATTN: N5
686 CUSHING ROAD
NEWPORT RI 02841-1207

fleetpubs@nwdc.navy.mil

ORDERING DATA

Order printed copies of a publication using the Print on Demand (POD) system. A command may requisition a publication using standard military standard requisitioning and issue procedure (MILSTRIP) procedures or the Naval Supply Systems Command website called the Naval Logistics Library (www.nll.navsup.navy.mil). An approved requisition is forwarded to the specific DAPS site at which the publication's electronic file is officially stored. Currently, two copies are printed at no cost to the requester.

CHANGE RECOMMENDATIONS

Procedures for recommending changes are provided below.

WEB-BASED CHANGE RECOMMENDATIONS

Recommended changes to this publication may be submitted to the Navy Warfare Development Doctrine Discussion Group, accessible through the Navy Warfare Development Command website at: http://www.nwdc.navy.smil.mil/.

URGENT CHANGE RECOMMENDATIONS

When items for changes are considered urgent, send this information by message to NWDC. Clearly identify and justify both the proposed change and its urgency. Information addressees should comment as appropriate. See accompanying sample for urgent change recommendation format on page 11.

ROUTINE CHANGE RECOMMENDATIONS

Submit routine recommended changes to this publication at any time by using the accompanying routine change recommendation letter format on page 12 and mailing it to the address below or posting the recommendation on the NWDC Doctrine Discussion Group site.

9 AUG 2006

NTRP 1-02

COMMANDER
NAVY WARFARE DEVELOPMENT COMMAND
DOCTRINE DIRECTOR (N5)
686 CUSHING ROAD
NEWPORT RI 02841-1207

CHANGE BARS

Revised text is indicated by a black vertical line in the outside margin of the page, like the one printed next to this paragraph. The change bar indicates added or restated information. A change bar in the margin adjacent to the chapter number and title indicates a new or completely revised chapter.

WARNINGS, CAUTIONS, AND NOTES

The following definitions apply to warnings, cautions, and notes used in this manual:



An operating procedure, practice, or condition that may result in injury or death if not carefully observed or followed.



An operating procedure, practice, or condition that may result in damage to equipment if not carefully observed or followed.

Note

An operating procedure, practice, or condition that requires emphasis.

WORDING

Word usage and intended meaning throughout this publication is as follows:

"Shall" indicates the application of a procedure is mandatory.

"Should" indicates the application of a procedure is recommended.

"May" and "need not" indicate the application of a procedure is optional.

"Will" indicates future time. It never indicates any degree of requirement for application of a procedure.

AUG 2006 10

FM ORIGINATOR
TO (Primary Review Authority)//JJJ//
INFO COMNAVWARDEVCOM NEWPORT RI//N5//
COMUSFLTFORCOM NORFOLK VA//JJJ//
COMPACFLT PEARL HARBOR HI//JJJ//
(Additional Commands as Appropriate)//JJJ//
BT
CLASSIFICATION//N03510//
MSGID/GENADMIN/(Organization ID)//
SUBJ/URGENT CHANGE RECOMMENDATION FOR (Publication Short Title)//
REF/A/DOC/NTTP 1-01//
POC/(Command Representative)//
RMKS/1. IAW REF A URGENT CHANGE IS RECOMMENDED FOR (Publication Short Title)
2. PAGE ART/PARA NO LINE NO FIG NO
3. PROPOSED NEW TEXT (Include classification)
4. JUSTIFICATION.
BT

Urgent Change Recommendation Message Format

Message provided for subject matter; ensure that actual message conforms to MTF requirements.

11 AUG 2006



DEPARTMENT OF THE NAVY

NAME OF ACTIVITY STREET ADDRESS CITY, STATE XXXXX-XXXX

> 5219 Code/Serial Date

FROM: (Name, Grade or Title, Activity, Location)

TO: (Primary Review Authority)

SUBJECT: ROUTINE CHANGE RECOMMENDATION TO (Publication Short Title,

Revision/Edition, Change Number, Publication Long Title)

ENCL: (List Attached Tables, Figures, Etc.)

1. The following changes are recommended for NTTP X-XX, Rev. X, Change X:

a. CHANGE: (Page 1-1, Paragraph 1.1.1, Line 1)

Replace "...the National Command Authority President and Secretary of Defense establishes procedures for the..."

REASON: SECNAVINST ####, dated ####, instructing the term "National Command Authority" be replaced with "President and Secretary of Defense."

b. ADD: (Page 2-1, Paragraph 2.2, Line 4)

Add sentence at end of paragraph "See Figure 2-1."

REASON: Sentence will refer reader to enclosed illustration.

Add Figure 2-1 (see enclosure) where appropriate.

REASON: Enclosed figure helps clarify text in paragraph 2.2.

c. DELETE: (Page 4-2, Paragraph 4.2.2, Line 3)

Remove "Navy Tactical Support Activity."

"...the Naval War College, Navy Tactical Support Activity, and the Navy Warfare Development Command are responsible for..."

REASON: Activity has been deactivated.

2. Point of contact for this action is (Name, Grade or Title, Telephone, E-mail Address).

(SIGNATURE) NAME

Copy to: COMUSFLTFORCOM COMPACFLT COMNAVWARDEVCOM

Routine Change Recommendation Letter Format

CHAPTER 1

Introduction

NTRP 1-02, Navy Supplement to the DOD Dictionary of Military and Associated Terms, (formerly NWP 1-02), establishes and standardizes the professional language of the U.S. Navy by defining the terminology, acronyms, and abbreviations used in Navy Warfare Library publications. NTRP 1-02 supplements Joint Publication 1-02 (JP 1-02), Department of Defense Dictionary of Military and Associated Terms. The vocabulary established by NTRP 1-02 should be used without alteration unless a distinctly different connotation is intended.

Chapter 2 establishes standard definitions for Navy terms. It does not include terms defined by JP 1-02 unless Navy usage has a markedly different context or meaning. Terms that are adequately defined by or that have definitions that can be derived from a standard collegiate dictionary are not included, nor are terms that have a very narrow, technical application that is described in technical directives and manuals. In short, NTRP 1-02 is not simply a compilation of Navy Warfare Library publication glossaries.

Chapter 3 establishes standard meanings for the most commonly used acronyms and abbreviations found in Navy Warfare Library publications and should be used as defined unless a distinctly different connotation is intended. Guidelines for using acronyms and abbreviations are provided in Appendix A of NTRP 1-02, Navy Warfare Library. As a general rule, abbreviations defined in JP 1-02 or standard collegiate dictionaries are not included in NTRP 1-02.

1-1 AUG 2006

INTENTIONALLY BLANK

CHAPTER 2

Terms and Definitions

- **absolute accuracy.** For GPS and precision-guided munitions, the degree of closeness of a measured or computed position of a point on the Earth's surface with respect to its true position based on a standard model of the Earth.
- **absorption.** In underwater acoustics, the reduction of sound intensity caused by the conversion of sound energy into heat as it passes through water.
- **acceptable risk.** The portion of identified risk that is allowed to persist without further controls.
- **acceptable strike impact perimeter.** A boundary determined (on imagery and/or grid reference numbers relating to other intelligence products) by the tasking agency that identifies the acceptable zone where the impact of weapons should cause no unacceptable collateral damage.
- **accompaniment.** A system whereby merchant ships due to transit a shipping risk area are gathered together and then transit the area, or that part of it which is considered particularly dangerous, in company with a warship or warships, but without formal convoy organization.
- **accuracy.** In relation to GPS and precision-guided munitions, the degree of conformity with a standard or the degree of perfection attained in a measurement. Accuracy relates to the quality of a result, and it is distinguished from precision, which relates to the quality of the operation by which the result is obtained.
- **acoustic advantage.** A situation that exists when the probability of own-ship gaining initial detection is greater than that of an opposing threat, expressed in terms of percentage of probability of first detection.
- **acoustic disadvantage.** A situation that exists when the probability of own-ship gaining initial detection is less than that of an opposing threat, expressed in terms of percentage of probability of first detection.
- **acoustic noise.** A general term referring to any undesired sound within a frequency band under scrutiny. Also see ambient noise, background noise, and self-noise.
- **acoustic protective measures (APM).** That division of acoustic warfare involving actions taken to ensure friendly effective use of the underwater acoustic spectrum, despite the enemy's use of acoustic energy. APM involve antiacoustic warfare support measures and antiacoustic countermeasures, and may not involve underwater acoustic emissions.
- **acoustic screen.** A blanket of air bubbles that entraps backscattered sound energy.
- **acoustic signature.** 1. The noise output characteristic of, and identified with, a specific noise source (for example, the noise output of a particular class of submarine). 2. In mine warfare, the characteristic pattern of the target's acoustic influence as detected by the mine.
- **active acoustic mine.** A mine actuated by the reflection from a target of an acoustic-ranging signal emitted by the mine.

2-1 AUG 2006

- **active desmoking.** Removing smoke and heat from the smoke control zone between the inner smoke boundary and outer smoke boundary prior to extinguishing the fire to aid firefighting efforts and reduce smoke spread in the ship.
- **active mine countermeasures.** Use of ships, aircraft, systems, and personnel to locate and neutralize mines. Active mine countermeasures are divided into two categories: minehunting and minesweeping.
- **active sonar.** Method of detecting or tracking underwater or surface vessels by processing the echo of a transmitted signal reflected from the target.
- **actuation counter.** An antisweep device used in naval mines to delay firing of the detonator until the firing mechanism has operated a predetermined number of times. Also called ship counter.
- **actuation level.** The minimum influence signal level needed to actuate a mine. The level of intensity and the duration of time that the influence field must be applied to satisfy the firing circuit requirements of the mine.
- **actuation probability.** In naval mine warfare, the average probability of a given mine type being actuated by one run of the sweep within the actuation width.
- **actuation probability area.** A horizontal plane area within which the sweeper-sweep combination will intercept an armed mine or its appendages with the necessary condition to cause a buoyant mine's mooring to be cut, a contact mine to be fired, or an influence mine to be actuated.
- **actuation width.** The total area under an actuation curve to include the path width over which mines can be actuated. Also called the average firing width.
- **acute radiation syndrome.** A combination of clinical syndromes occurring in stages, during a period of hours to weeks after exposure, as radiation injury to various tissues and organs is expressed.
- **administrative group.** In an amphibious operation, the agency responsible for administrative and special details in the objective area, to include repair and salvage; hydrographic surveys; laying of nets, buoys, and beacons; initial harbor development and control; port control; boat pools; mail; and other tasks as assigned.
- **administrative plan.** In an amphibious operation, a plan normally relating to and complementing the operation plan or order that provides information and instructions covering the logistic and administrative support of the operation.
- **advance.** In maneuvering a ship, the distance gained in the direction of the original course when turning. Also see transfer.
- **advance base.** See "advanced base" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **advanced base functional component (ABFC).** A grouping of personnel, facilities, equipment, supplies, and materiel designed to perform a specific function or accomplish a mission at an advanced base.
- **advanced range.** Present range combined with corrections and predictions necessary to compensate for own-ship and target motion during time of flight, plus ballistic corrections and spots.
- **advanced traceability and control.** A closed-loop, transportation hub-and-spoke operation for the collection and consolidation of depot level repairables that are received from fleet customers and technically screened for repair, stowage, or disposal and then shipped to the appropriate site.
- **advance party.** A task organization formed by the Marine air-ground task force commander that consists of personnel designated to form the nucleus of arrival and assembly organizations in support of maritime

- prepositioning force operations, amphibious embarkation, or contingency or training deployments. The primary task of the advance party is to arrange for the reception of the main body.
- **advance tactical support base (ATSB).** A base located in an area of operations for the purpose of providing support for the craft and forces operating in the forward area. Base planning and construction is such that it can be moved to another location with minimum difficulty in the event that the area of operation shifts. An ATSB normally has a minimum craft repair capability, fuel, ammunition, water, food, and medical facilities.
- **advisory control.** A mode of control under which the aircraft commander selects speed, altitude, and heading and has freedom of action to accomplish the assigned task. The aircraft control unit informs the aircraft of the current tactical situation and provides adequate warnings of hazards affecting aircraft safety. The aircraft commander is responsible for the aircraft's navigation and collision avoidance. Also see positive control in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html.
- **aerial port of debarkation (APOD).** A station that serves as an authorized port to process and clear aircraft and other traffic for entrance to the country where located. Also see "port of debarkation" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **aerial port of embarkation (APOE).** A station that serves as an authorized port to process and clear aircraft and traffic for departure from the country where located. Also see "port of embarkation" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **aeromedical evacuation certification.** The culmination of processes to assure that a piece of equipment will perform as specified during the stresses of flight without jeopardizing the safe operation of the aircraft.
- **aeromedical staging facility.** A medical facility located on or near an air base (or airstrip) to receive, administratively support, process, transport (on the ground), feed, and provide health care for patients entering, in the midst of, or leaving an aeromedical evacuation system.
- **aerospace position.** In SAR, the position of a distressed aircraft or spacecraft at the time of reentry, engine failure, aircrew ejection, or bailout.
- **aerospace trajectory drift.** In SAR, that drift caused by bailout trajectory or by glide of a disabled aircraft.
- **afloat ammunition allowance lists.** Also known as "30,000 Series" allowance lists. Prescribes ammunition load capacity by line item/naval ammunition logistics code for individual ships/ship classes.
- **afloat planning system (APS).** A Tomahawk mission planning and distribution site installed onboard selected aircraft carriers.
- **afternoon effect.** The solar heating of the surface water that causes shallow negative temperature gradients. This results in downward refraction of sound rays and reduced surface duct ranges.
- **aggressor vessel.** In harbor defense, any vessel that manifests a hostile intent against persons, facilities, or the marine environment located within the harbor defense commander's area of operations. This definition may fit any vessel regardless of the country of registry, ownership, charter, or crew makeup.
- **air cargo company.** A Navy unit tasked with establishing and operating an overseas air cargo terminal in an expeditionary environment.
- **air defense commander (ADC).** In the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for defensive counterair and granted the tactical control authority to accomplish the assigned missions and tasks.

2-3 AUG 2006

- **air plan.** The daily flight plan for carrier operations, including takeoff and recovery times, and fuel and ord-nance requirements.
- **air resources element coordinator (AREC).** In the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for management and coordination of fixed wing air and carrier-based helicopter assets.
- **air search attack unit.** A search attack unit composed entirely of aircraft. Also see "antisubmarine air search attack unit" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- air threat environment. The condition(s) that relates to the enemy's air defense capability against airborne friendly aircraft. There are three general levels of air threat environment: 1. low - An air threat environment that permits combat operations and support to proceed without prohibitive interference. Associated tactics and techniques do not formally require extraordinary measures for preplanned or immediate support. Target/objective engagement is enhanced by effective communications, accurate target/objective identification, and reattacks if applicable (limited only by aircraft time on station and ordnance on board). 2. medium - An air threat environment in which the specific aircraft performance and weapon systems capability allow acceptable exposure time to enemy air defenses. This air threat environment restricts the flexibility of tactics in the immediate target/objective area. It is an environment in which the enemy may have limited radar and/or electro-optical acquisition capability at medium rnge, but the air defense system is not supported by fully integrated fire control systems. Medium air threat environments normally allow medium-altitude missions/attack deliveries with low probability of engagement by enemy air defenses. 3. high - An air threat environment created by an opposing force that possesses air defense combat power, including integrated fire control systems and electronic warfare capabilities that would seriously diminish the ability of friendly forces to provide necessary air support. This air threat environment might preclude missions such as immediate CAS, since the requirements for effective radio communications and coordination may not be possible. The high air threat environment may include but is not limited to command and control network; mobile and/or stationary surface-to-air missiles; early warning radars; electronic warfare; integrated (AAA) tire control systems; interceptor aircraft; and wartime reserve modes.
- **airborne alert interdiction.** A type of interdiction mission characterized by the employment of air-to-ground aircraft from an airborne alert status against emerging or time-critical targets as directed by the appropriate command and control node or agency. Also see "interdiction" and "air interdiction" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **airborne mine countermeasures.** Mine countermeasures operations conducted from an aircraft platform to detect and reduce the effectiveness of or defeat the enemy's mining effort. It includes watching, spotting, hunting, sweeping, and destroying.
- **airborne stores.** Items intended for carriage internally or externally by aircraft, including racks, launchers, adapters, and detachable pylons, which are not normally separated from the aircraft in flight, such as tanks, pods, nonexpendable training weapons, and targets.
- **airborne weapons.** Items intended for carriage internally or externally by aircraft, which are normally separated from the aircraft in flight, such as missiles, rockets, bombs, mines, torpedoes, pyrotechnics, ammunition, and guns.
- **aircraft control unit (ACU).** A unit with facilities and personnel, including controllers, that conducts aircraft control and exercises tactical control of aircraft or unit(s).
- **aircraft intermediate maintenance department.** The department responsible for the check, test, repair, or manufacture of aeronautical components and support equipment for the supported aircraft.
- aircraft wreckage locator. A record of all aircraft wreckage within a SAR area of responsibility. It consists of

- a visual plot of each wreckage on a map and is referenced by number to an index file that contains pertinent data concerning the wreckage.
- **airspace reservation.** During SAR missions, temporary air space or altitude reservations for the purpose of preventing unessential non-SAR aircraft from entering air space being used by aircraft for SAR operations. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **air-surface action group (ASAG).** A unit comprised of two or more aircraft of the same type assigned to counter a particular surface threat (when only helicopters are used, it is known as a helicopter action group (HAG).
- **alert notice.** See "search and rescue incident classification" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **alert phase.** See "search and rescue incident classification" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **alert state.** The maximum time in minutes required to bring an aircraft or weapons system (or part of it) to immediate availability.
- **alien migrant interdiction operations.** Civil or military actions taken to prevent alien migrants from illegally entering the U.S.
- **alternate aim point.** A command that may be planned into a Tomahawk mission as a measure to lower the risk of collateral damage if the accuracy of the missile's navigational solution is below the level of confidence required for the mission.
- **altitude line.** Heavy band of clutter produced by radar energy reflection from the Earth's surface.
- **ambient limited speed.** For a ship or submarine platform, the slowest recommended search speed. At this speed or slower, acoustic detection ranges are limited by the ambient noise in the environment and not by the platform's self noise. (This occurs at the speed where self-noise = ambient noise 6 dB.) Also see break point speed.
- **ambient noise.** The naturally occurring noise in the sea and the noise resulting from human activities but excluding self-noise and reverberation.
- **ammi pontoon.** A pontoon designed to be used singly or as interconnected multiple units to form floating or elevated piers and causeways. The ammi pontoon can be elevated on tubular steel legs. The individual pontoon also can be used as a self-propelled fuel or water barge, warping tug, or ferry.
- **amphibious bulk liquid transfer system (ABLTS).** Ship system used to pump bulk petroleum, oils, and lubricants, and potable water ashore via buoyant hose line.
- **amphibious ready group.** A command within the amphibious force, consisting of the commander and his staff, designed to exercise operational command of assigned units in executing all phases of a division-size amphibious operation.
- **anchor chain collar.** A circular device that rides down the anchor chain. It has a retrieving line attached by which the collar can be returned to the water's surface. This device is used to permit periodic checking of the anchor chain to ensure that an explosive device has not been attached to the anchor chain by an attack swimmer. After each inspection, the collar is lowered to the bottom.
- **anechoic coating.** A hull coating that absorbs sound. This coating reduces the amount of internally generated noise reaching the water and also reduces the active sonar reflectivity of the hull.

2-5 AUG 2006

- **angle of climb (dive).** The vertical angle between the horizontal and the direction of motion of a target measured in degrees at the target.
- **angle on the bow.** The angle between the fore- and aft-axis of a target and the line of sight, measured from the target bow to starboard or port. Also see aspect, target angle.
- antenna sweep. A shallow water wire sweep configuration that actuates the mine by contact with the antenna.
- **antiair warfare (AAW).** 1. See "air defense" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html. 2. Measures taken to defend a maritime force against attacks by airborne weapons launched from aircraft, ships, submarines, and land-based sites.
- **anticountermine device.** A device fitted in a mine to prevent its actuation by shock from a nearby explosion.
- **anti-invasion mine.** A mine designed for use in the surf zone and very shallow water against landing craft, fast patrol boats, surface effect vehicles, and other amphibious assault vehicles.
- **antimine countermeasures vehicle mine.** A mine that is laid, or whose mechanism is designed or adjusted, with the specific object of damaging mine countermeasure vehicles.
- **antisubmarine evasion**. A change in the planned route or speed (but not destination) of a force, convoy, or independent unit ordered by the officer in tactical command to evade a submarine threat.
- **antisubmarine minefield.** A field laid specifically against submarines. It may be unsafe for all vehicles or it may be deep and safe for surface vessels to cross.
- **antisubmarine warfare commander (ASWC).** In the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for ASW and granted the tactical control authority to accomplish the assigned missions and tasks.
- **antisubmarine warfare-free area.** A waterspace management area in which no friendly submarines are operating, and there are no restrictions on the use of antisubmarine weapons.
- **antiterrorism officer.** The point of contact directly responsible to the commanding officer for all matters dealing with antiterrorism and force protection. Formerly "force protection officer."
- **antiterrorism plan.** A plan that documents the specific measures taken to establish and maintain an antiterrorism/force protection program, ensuring readiness against terrorist attacks.
- **approach route.** In mine warfare, a sea route that joins a port to the coastal or transit route.
- **area fire.** A volume of fire delivered on a prescribed area. The term is applicable regardless of the tactical purpose of the fire, but area fire is generally neutralization fire.
- **area of operations (AO).** In Navy usage, an operational area defined by the naval commander for own-force operations. The area of operations should be large enough for commanders to accomplish their missions and protect their forces. See also DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **area of uncertainty (AOU).** The area centered on the most likely contact position at time of detection in which the contact is believed to be at a specified level of probability. It is usually an ellipse and is sized to reflect the uncertainty of that position and report.
- **area religious ministry coordination team.** A team designed to identify religious ministry (RM) requirements in a geographic area and to develop strategies to enhance mission efficiency and effectiveness. The team expands the command religious program to encompass commands without assigned religious ministry teams to

- ensure that RM tasks and activities are planned, programmed, budgeted, and implemented to meet the identified RM requirements of the geographical area.
- **area search detachment.** In explosive ordnance disposal (EOD) operations, an EOD detachment that uses a side-scanning sonar to reacquire mine-like contacts already located by other means.
- **armed helicopter escort.** A helicopter armed for suppressive fire and flown in support of transport helicopters, utility helicopters, motorized or troop convoys, and other missions to which they may be assigned.
- **arming delay.** The time interval between the instant ordnance is launched and the instant the fuze becomes armed.
- **arming device.** A safety mechanism that interrupts the primary explosive firing train until a unique combination of environments is satisfied.
- **array.** A group of two or more hydrophones arranged to provide a variation of reception with direction when beamformed. Also see phased array radar.
- **arrival and assembly area.** An area designated by the maritime prepositioning force commander in coordination with the unified commander and host nation for arrival, offload, and assembly of forces and maritime prepositioned equipment and supplies, and for preparations for subsequent operations. The area is administrative in nature and does not denote command of a geographic area. Such an area may be inside an amphibious objective area. Within the arrival and assembly area, coordination authority for the following is implied for the maritime prepositioning force commander: a) prioritization and use of airfield(s), port, beach facilities, and road networks, b) air traffic control, and c) logistics support activities.
- **arrival and assembly operations element.** An agency in each Marine air-ground task force element and the naval support element that coordinates the logistics functions of the offload of maritime prepositioned equipment and supplies and the arrival and assembly of forces.
- **arrival and assembly operations group.** A staff agency of the Marine air-ground task force (MAGTF), composed of personnel from the MAGTF and a liaison from the naval support element, that controls the arrival and assembly operations.
- **aspect.** The angle between the fore- and aft-axis of a target and the line of sight, measured from the target heading to starboard or port. May be expressed in general terms, e.g., bow, broad bow, beam, quarter, and stern. Also see angle on the bow, target angle.
- **assault force.** In Navy special operations, a group of assault teams and a command and control element whose primary mission is to gain entry to the crisis point and secure the release of hostages and/or equipment by eliminating the threat through the selective use of force.
- **associated support.** In Navy usage, operations in which a designated unit operates independently of a specified force or group but is tasked to provide contact information to, receive intelligence from and, if authorized, to cooperate and coordinate operations with the supported force. Tactical control of the unit remains with the assigning authority who coordinates tasking and movement of the unit in response to the requirements of the supported force commander.
- **asymmetrical mine countermeasure gear.** Any mine countermeasure gear whose center of actuation, influence, detection, or cutting is displaced from the centerline of the platform.
- **attenuation.** In underwater acoustics, the reduction in sound intensity (dB/kyd) caused by the absorption and scattering of sound in water.

2-7 AUG 2006

- **attrition mine countermeasure operations.** The continuous application of mine countermeasures to keep the risk from mines to all vehicles as low as possible where traffic is to continue for a sustained period. These operations are appropriate against minefields that are being replenished.
- **attrition objective.** In mine countermeasures, the goal of keeping the threat of mines to ship traffic as low as possible when traffic must continue to transit the mined waters for a comparatively long period of time, and the mines cannot be cleared in a short time because of factors such as replenishment, mine mechanisms with delayed arming, or high ship count settings.
- **attrition warfare.** The application of overwhelming combat power that reduces the effectiveness of an enemy's ability to fight through the loss of personnel and material.
- **authority.** The person vested with the power to make decisions and issue orders; also, the individual power to make decisions and issue relative orders imposing those decisions such power may be limited in scope, time, and location. Authority automatically confers the responsibility to carry out assigned tasks and report results to the assigning authority.
- **auxiliary machinery.** In acoustic prediction usage, all machinery not directly associated with the main propulsion drive train, especially shipboard machinery that does not vary in rotational speed as the ship changes speed. Examples include: ship's service turbo generator, main feed pumps, air-compressors, trim drain pumps, etc.
- **average actuation area.** The integral, over a plane perpendicular to the centerline of the target ship, of the probability of actuation of a mine under specified conditions.
- **average actuation width.** The integral, over an athwartship distance between the mine and the keel of the target ship, of the probability of actuation of a mine at a given depth and under specified conditions.
- average firing width. See actuation width.
- **average power.** When applied to pulse radars utilizing a single transmitted pulse-per-pulse repetition period, the product of the peak power transmitted and the duty cycle of the pulse. The average power is usually defined as that existing over a single-pulse repetition period of a radar.
- **average sea current.** That current present in the open sea that is caused by factors other than local winds. Found by using HO 700, Atlas of Surface Currents, pilot charts, and/or local knowledge.
- **awareness stage.** That stage when the SAR system becomes aware of an incident.
- **azimuth.** As related to GPS, the angle measured clockwise in the horizontal plane between the North Pole and the observed terrestrial object. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **background noise.** In acoustics, all unwanted sounds, other than reverberation, received by a hydrophone. It includes ambient and self-made noise.
- **backload.** The process of putting returning personnel and/or vehicles and their associated stores and equipment into ships and/or aircraft; such personnel and equipment having been once embarked in ships and/or aircraft and used to support operations ashore. Also see "embarkation" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html.
- **backscatter.** In underwater acoustics, that part of the reflected sound energy that returns to the transducer; equivalent to reverberation. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

baffle. An acoustic shielding structure or partition that increases the transmission loss between two points. The baffle region refers to an acoustically blind area behind own-ship created by the physical relationship between the array and the ship hull.

ballistic density. A representation of the atmospheric density actually encountered by a projectile in flight expressed as a percentage of density according to the standard atmosphere. Thus, if the actual density distribution produced the same effect upon a projectile as the standard density distribution, the ballistic density would be 100 percent.

band level. The level of noise or signal in a specified frequency band.

bareboat charter. Under this type of contractual agreement, the ship owner relinquishes control and management of his ship to the charterer for a number of years — often for the ship's entire service life. The charterer crews and operates the ship and is responsible for all costs of operation, including fuel, port changes, and canal tolls. The charterer agrees to return the ship to the owner in good condition (normal wear and tear expected) when the charter party expires. The charterer pays "hire," which is usually expressed in terms of a certain amount of dollars per day or a certain dollar amount per dead weight ton per month.

barrier line. In ASW, the line formed by a series of static devices or mobile units arranged for the purpose of detecting, denying passage to, or destroying enemy submarines.

base course. A reference course or direction desired to be made good when evasive steering is being carried out.

baseloaded. A replenishing ship's cargo intended for delivery to a base or replenishment group.

base recovery course. The ship's magnetic heading for aircraft recovery.

base speed. The speed resulting along the base course when evasive steering is being carried out.

basic allowance. With regard to maritime prepositioning ship support of amphibious operations, the quantity of ammunition required to support a given number of weapons for a specified period of time. When used in relation to cargo offered for shipment (i.e., vehicles with basic allowance), it means that the vehicles are loaded with the ammunition necessary to support the unit involved.

battle bill. A list of stations to be manned under battle conditions and the personnel requirements for manning those stations.

battle casualty. Any casualty with an injury incurred as the direct result of hostile action, sustained in combat or sustained while going to or returning from a combat mission, provided that the occurrence was directly related to hostile action. Included are persons killed or wounded mistakenly or accidentally by friendly fire directed at a hostile force or what is thought to be a hostile force.

battle force logistics coordinator (BFLC). The logistic coordinator for a battle force who establishes a focal point for management and coordination of logistics to support operating forces. This organization is established when logistic coordination of two or more subordinate battle groups is required.

battle messing. The process by which personnel are fed onboard ships during periods of prolonged manning of battle stations in support of general quarters.

battle rhythm. See daily operations cycle.

battle short. A switch for short-circuiting the safety interlocks in most electronic equipment to supply power.

2-9 AUG 2006

battlespace. All aspects of air, surface, and subsurface, land, space, and the electromagnetic spectrum that encompass the area of influence and area of interest. See also DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

battlespace awareness. Awareness of the environment and the status of adversary and friendly forces, yielding an interactive "picture" that provides timely, relevant, and accurate assessments of friendly and adversary operations within the battlespace.

battlespace dominance. The degree of control over the dimensions of the battlespace that enhances friendly freedom of action and denies the enemy freedom of action. It permits power projection and force sustainment to accomplish the full range of potential missions.

battlespace shaping. The continual process of developing, evaluating, and revising the force operational profile within the battlespace. Provides the foundation of the force commander's operational message within the battlespace.

beach gear. A direct pulling system used to free stranded vessels, consisting of an anchor connected to a pulling wire and purchase tackle used to heave against the holding anchor.

beach party team. The Navy component of the debark control unit responsible for controlling lighterage in the surf zone, conducting lighterage salvage, and transferring bulk liquids from maritime prepositioning ships.

beamformer. Equipment that forms bearing sectors around an array to permit association of a direction with an underwater acoustic signal.

beam rider guidance. That form of missile guidance wherein a missile, through a self-contained mechanism, automatically guides itself along an electronic beam.

bearing rate. The rate of change of target bearing from own ship caused by the relative motion of own ship and target. It is normally expressed in degrees per minute, left or right.

bearing resolution. The minimum angular separation between two targets at the same range that will allow an operator of a specific piece of electronic equipment to distinguish between the two targets.

bearing sector. A general bearing. If a target is known to be somewhere within plus or minus 15 degrees of a specific bearing, it is said to be within a 30-degree bearing sector.

bellringer. Any procedure or system for alerting a submarine.

beset. Situation of a vessel surrounded by ice (nipped) and unable to move.

biologic. Ambient sea noise of biological origin.

bioluminescence. The production of light without sensible heat by living organisms as a result of a chemical reaction either within certain cells or organs or in some form of secretion.

bistatic. Refers to the case in active sonar where the active source and the receiving hydrophone are separated. Also see monostatic and multistatic.

black bottoms. Refers to commercial cargo ships operated or leased by the Military Sealift Command to transport surge replenishment requirements in response to wartime or contingencies.

blade rate. The frequency of the pulsating thrust imparted by the shaft to the ship caused by the propeller moving through the wake profile of the ship.

- **blind zone.** The area in which a radar or electonic countermeasure's equipment cannot receive echoes. Blind zones are normally caused by interference from a ship's superstructure.
- **blockade.** A belligerent operation to prevent vessels and/or aircraft of all nations, enemy as well as neutral, from entering or exiting specified ports, airfields, or coastal areas belonging to, occupied by, or under the control of an enemy nation. A belligerent's purpose in establishing a blockade is to deny the enemy the use of enemy and neutral vessels or aircraft to transport personnel and goods to or from enemy territory.
- **BLUE DART message.** A time-sensitive terrorist incident notification message initiated by the Navy Antiterrorist Alert Center to provide commands immediate indications and warning of the high potential for, and imminent threat of, a terrorist action.
- **boarding ship.** In maritime interception operations, the unit tasked with providing the boarding team for boarding a suspect vessel.
- **bottom bounce.** Sound transmission in which sound rays strike the bottom in deep water at steep angles and are reflected to the surface.
- **bottom contours.** Lines of equal water depth used to depict bottom topography on bathymetric charts.
- **bottom interaction.** Interaction of underwater sound with the ocean bottom, whether the sound is reflected from the sediment, or refracted through it, or both. At low frequencies, refraction may produce a focusing, somewhat similar to a convergence zone.
- **bottom limited.** A situation that exists when the ocean bottom occurs at a depth less than the critical depth. Convergence zone propagation is prevented from occurring. Deep sound channel propagation is restricted to a deep source.
- **bottom loss.** Acoustic energy lost on the sea floor as a result of attenuation; also, the ratio of the energy of a bottom-returned wave to the energy of the incident wave.
- **bottom reverberation.** A term referring to scattered sound energy that is reflected back to the acoustic source after striking the ocean floor.
- **bottom search.** An ASW search that is a particular application of the close search for use in shallow water and when the submarine is suspected to be on the bottom.
- **bottom sweep.** A device, either wire or chain, used either to sweep moored mines close to the bottom or to remove moored mines from a channel by dragging them to a designated area. The sweep configuration may consist of one or two ships dragging the wire or chain across the seabed.
- **bottom type.** A number which categorizes the ocean bottom with respect to acoustic properties. NAVOCEANO categorizes the bottom into nine classes for frequencies 1000 Hz and above; they are displayed on the ASW prediction area chart. Bassett and Wolff categorize the bottom into three classes for frequencies below 1000 Hz.
- **boundary.** In underwater acoustics, a level at which a discontinuity exists, such as the ocean surface and ocean bottom. A boundary can also exist between different masses of ocean water, such as an ocean front, and between different thermal characteristics, such as a mixed-layer depth. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **bounded sea.** Any sea space surrounded by land with restricted entry and exit routes and limited operating space.
- **break plane**. Referencing the vertical and horizontal planes of motion available to all aircraft. To break plane is to maneuver in vertical or horizontal planes other than those occupied by another aircraft.

2-11 AUG 2006

- **break point speed (BPS).** For a ship or submarine platform, the fastest recommended ASW search speed. At this speed or faster, acoustic detection ranges are limited by the platform's self-noise, and not by the ambient noise in the environment. (This occurs at the speed where self-noise = ambient noise.) See also ambient limited speed.
- **breakthrough.** In mine countermeasures, a time-critical operation applied to the mine countermeasures tactic of minimizing the mine threat by creating a narrow path through a minefield to gain passage for ships.
- **brightness.** The apparent luminosity of a subject due to the reflection of the illumination falling upon it. Measured in foot-lamberts.
- **brisance.** The shattering power of an explosive; it is a measure of the kind of work an explosive will do and is usually dependent upon, and indicated by, the velocity of the explosive reaction.
- **broadband.** Acoustic energy that is spread over a wide nondiscrete frequency band. Broadband signals cover a frequency range one-tenth octave or larger.
- **broadband noise.** Noise from any source other than the measuring equipment and platform and covering a wide range of frequencies.
- **broadcast control.** A form of aircraft mission control in which tactical and target information is passed to enable the aircraft to accomplish the assigned tasks. The controlling unit, when possible, provides adequate warnings of hazards, but the aircraft commander(s) is (are) responsible for aircraft navigation and collision avoidance. Two-way communications are not a prerequisite for this type of control. Also see close control and loose control.
- **buffer zone.** In shipboard firefighting, the area between the inner and outer smoke boundaries established for a class-B fire in a machinery space. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **buried mine.** A mine that is partially or fully covered by bottom sediment.
- **burnthrough.** The point where the echo is first discernible through the jamming. Also see "burn-through range" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **captain of the port (COTP).** The officer responsible for enforcing, within his/her jurisdictions, port safety, security, and marine environmental protection regulations including, without limitation, regulations for the protection and security of vessels, harbors, waterfront facilities, anchorages, security zones, safety zones, regulated navigation areas, deep-water ports, water pollution, and ports and waterways safety.
- **cargo handling detachment (CHD).** A Navy support element (NSE) component consisting of U.S. Navy cargo handling force personnel assigned to the offload preparation party who are augmented by additional supervisory and technical NSE personnel to accomplish the offload.
- **cargo handling force (CHF).** A Navy support element of the offload control unit consisting of U.S. Navy cargo handling force personnel assigned to the off-load preparation party and debarkation team.
- **cargo load allowance list.** An approved listing of ordnance carried as cargo for underway replenishment for issue to other fleet units in support of their assigned mission.
- **carrier-controlled approach (CCA).** A precision system using radar to pick up and detect carrier-based aircraft (operating under instrument flight conditions) to a position and course relative to a carrier from which recovery can be made.

- **carrier onboard delivery (COD).** The delivery of passengers and/or light freight on-board an aircraft carrier at sea by carrier aircraft. Such aircraft are carrier type aircraft especially adapted for this purpose.
- **cartridge-actuated devices/propellant-actuated devices.** Explosive devices used to eject stores from launched devices, actuate other explosive systems, provide initiation for aircrew escape devices, or provide seat propulsion.
- **case depth.** The vertical distance from the water's surface to the planted mine. For moored mines, this is the water depth at which the explosive charge is held by the mooring line. For ground mines, the case depth is the same as the sea bottom depth.
- **casualty distribution.** In naval mine warfare, the set of probabilities for every possible number of casualties out of N transit attempts, i.e., 40-percent probability of three casualties in ten transits.
- **casualty rate.** In naval mine warfare, the expected number of casualties per time period in a sustained attrition mining campaign.
- **casualty report.** An operational report submitted for casualties (including degradations) that affect a unit's assigned primary mission area when repairs of the equipment and/or related computer software are not possible within 48 hours. The report identifies casualty effects to the mission area, parts, technical assistance, and estimated repair time. Casualty reports are classified as initial, update, cancellation, or correction reports, which provide the operational and type commanders within the unit's chain of command its readiness status.
- **catenary chain drag.** A technique used to sweep moored mines employing two ships or small craft towing a chain between them.
- **caustic.** In a two-dimensional ray diagram, a caustic is a curve formed by the intersections of adjacent rays in the diagram. A focus occurs when a caustic degenerates to a point or a small region of space.
- **cavitation.** The formation of local cavities (bubbles) in a liquid as a result of the reduction of total pressure. This pressure reduction may result from a negative pressure produced by rarefaction or from the reduction of pressure by hydrodynamic flow, such as that produced by high-speed movement of an underwater propeller.
- **center frequency.** In underwater acoustics, the frequency in the middle of a bandwidth that is determined by taking the average of the sum of the upper limit and the lower limit.
- **chain mooring.** An antisweep device consisting of a length of chain inserted in the mooring of a mine for the purpose of resisting or disrupting sweep wires and cutters.
- **channel conditioning.** An operation that removes mine-like objects from channels, harbor approaches, and Q-routes to reduce the number of mine-like and nonmine-like bottom objects detectable by mine-hunting systems.
- **channelization.** A tactic employed through the use of mines, obstacles, fires, or deception to influence the maneuver of a force across a predetermined path.
- **chart.** A graphic representation of a section of the earth's surface specifically designed for navigational purposes.
- **charter party.** In military sealift usage, a contractual agreement between a ship owner and a ship charterer.
- **check MCM operation.** A mine countermeasures (MCM) operation to confirm that, as far as possible, no mines are left after a previous MCM effort. Also see "check sweeping" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

2-13 AUG 2006

- **chemical horn.** An actuation mechanism for a contact mine. It consists of an external housing (which is easily bent or crushed and contains the sealed electrolyte tube) and internal battery plates connected to a detonator. When the horn is bent, the tube breaks and allows the electrolyte to activate the battery that passes a current to fire the detonator. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **choke point.** An oceanographic area where passage is restricted. An area considered easily defended or watched over.
- **circle search.** An acoustic search pattern in which the torpedo searches in repeating circles until target detection or torpedo exhaustion.
- **civic action team.** In Navy civil engineering usage, a team normally comprised of one Civil Engineer Corps officer, an independent duty hospital corpsman, and eleven Seabees.
- **civil affairs.** The activities of a commander that establish, maintain, influence, or exploit relations between military forces and civil authorities, both governmental and nongovernmental, and the civilian populace in a friendly, neutral, or hostile area of operations in order to facilitate military operations and consolidate operational objectives. Civil affairs may include performance by military forces of activities and functions normally the responsibility of local government. These activities may occur prior to, during, or subsequent to other military actions. They may also occur, if directed, in the absence of other military operations. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **civil engineering.** Those activities that identify, plan, design, construct, alter, demolish, or lease facilities and that operate, maintain, perform war damage repair, and provide for their disposal in support of military operations. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **civil engineer support equipment.** Mobile construction, automotive, railway, firefighting, and weight handling equipment and associated items required to support the operating forces of the Navy, Marine Corps, and naval shore establishment in regard to shore facilities, transportation, and related engineering material and equipment.
- **civil support.** Department of Defense support to United States civil authorities for domestic emergencies and for designated law enforcement and other agencies.
- **classification.** The evaluation of a contact. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **classification signature.** The susceptibility to being classified as a submarine or warship by other platforms.
- **classification, identification, and engagement area (CIEA).** In maritime operations, the area within the surveillance area and surrounding the vital area(s) in which all objects detected must be classified, identified, and monitored; and the ability maintained to escort, cover, or engage. Also see area of operations, surveillance area, vital area.
- **clearance operations.** In naval mine warfare, the process of sweeping or hunting in a mined area with the aim of clearing all or a high percentage of mines from an area, channel, or route. A specific percentage of clearance is generally specified.
- **clear-deck recovery.** In LAMPS helicopter operations, conventional landing on a RAST-equipped ship that does not use the hauldown cable or the RSD.
- **cleared vessel.** In maritime interception operations (MIO), a suspect vessel that has been queried or boarded and has declared that its next port of call is in an area designated by the MIO sanctioning body and has been directed to proceed to the next port of call; or a suspect vessel outbound from an area designated by the MIO sanctioning body that has been queried and allowed to proceed to its next port of call.

- **clearing objective.** In mine warfare operations, to remove most mines from the assigned operational area. Since it is generally impossible to guarantee that all mines are cleared, a goal is assigned, such as removing or neutralizing 99.5 percent of the mines.
- **climatological conditions.** An average of environmental conditions over a specified period of time such as a calendar month, season, year, century, etc., for a specific geographic location (i.e., a climatological sound velocity profile would represent the average condition for a given area; anomalous conditions would not be reflected).
- **clobber.** The unintentional impact of TLAM with a natural or manmade obstacle.
- **close ASW action.** An action in which one or more ASW units attempts to engage an enemy submarine within 8,000 yards.
- **close control.** A form of aircraft mission control in which the aircraft is continuously controlled for altitude, speed, and heading to a position from which the mission can be accomplished. See also broadcast control and loose control.
- **closed-loop sweep.** A magnetic sweep in which the sweep current is carried entirely by insulated electrical conductors and does not depend upon seawater to complete the electrical circuit. The conductors are diverted to one or both sides using components of the Oropesa mechanical sweep.
- **close search.** A search for a particular submarine employed when a lost contact search or procedure has failed to relocate the submarine or when time late is too great to permit use of a lost contact search.
- **clutter.** In naval mine warfare, all echoes detected by a minehunting sonar system during the detection phase that are repeatedly above the noise or average reverbation background. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **clutter density.** The number of nonmine bottom objects per square nautical mile in an operational segment.
- **coastal area.** An area that may include land, harbors, coastline, islands, territorial waters, and coastal waters, the seaward limits of which depend on geographical and operational factors and in which special regulations may apply.
- **coastal route.** In naval mine warfare, a sea route, normally following the coastline, that joins adjacent approach routes.
- **coastal sea control commander.** An officer designated by the naval coastal warfare commander to conduct surveillance and interdiction operations in the coastal area.
- **coastal state.** A nation bordering ocean waters that has the authority under international law to exercise various degrees of sovereignty over the immediately adjacent ocean waters.
- **coastal waters.** A sea area within a coastal area extending to seaward from the shore line.
- **CODAG.** A combination power plant consisting of a diesel engine and a gas turbine configured so that both can be operated simultaneously. In a typical application, the diesel engine is used for normal cruise conditions while the gas turbine allows for high-speed operations.
- **CODOG.** A combination power plant consisting of a diesel engine and a gas turbine configured for exclusive operations. The diesel engine is employed for normal operations. For high-speed operations, the diesel engine is secured, and the gas turbine is employed.

2-15 AUG 2006

- **COGAG.** A combination power plant consisting of gas turbines in which one turbine is employed for cruise economy, and a second larger turbine provides boost power.
- **COGOG.** A combination of gas turbines in which one is used for cruise economy, and a second larger one provides boost power. It differs from a COGAG configuration in that the smaller turbine must be physically disengaged when the boost turbine is employed.
- **cold core eddy.** Large cold water mass that has broken off from its parent water mass into a different water mass, yet retains its specific properties for long periods (up to two years) before being assimilated.
- **collinearity.** In photogrammetry, the fundamental geometric principle that the point visible in the image, the exposure station of the camera, and the point on the ground lie along a single light ray.
- **combat loading.** In amphibious operations, loading methods that give primary consideration to the facility with which troops, equipment, and supplies can be unloaded ready for combat rather than to economical use of ship space. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **combat logistics force.** Includes active Navy ships and those operated by the Military Sealift Command within the naval fleet auxiliary force that carry a broad range of stores, including fuel, food, repair parts, ammunition, and other essential materiel to keep naval forces operating at sea for extended periods.
- **combat organization loading.** A method of loading conducted without regard to tactical considerations upon debarkation. It permits debarkation of complete units and equipment that will be available for tactical employment and assembly ashore. This method is more economical in ship space than is combat unit loading.
- **combat requirement.** The quantity of munitions required to equip a specified force structure to its designed military capability and to meet CINC objectives, including munitions needed for overlap.
- **combat spread loading.** A method of combat loading by which some of the troops, equipment, and initial supplies of a unit are loaded in one ship, and the remainder are loaded in one or more other ships. This method is commonly used for troop units with heavy equipment. Also see combat organization loading and combat unit loading.
- **combat stress.** The mental, emotional, or physical tension, strain, or distress resulting from exposure to combat-related conditions. Combat stress is the net result of many stressors (e.g., fear of death, fear of failure, and other intensive painful emotions (like grief), uncertainty, boredom, worry about what is happening back home, and the many physical and mental demands of combat duties) at any given time.
- **combat unit loading.** A method of loading by which all or a part of a combat unit, such as an assault battalion landing team, is completely loaded in a single ship with essential combat equipment and supplies in such a manner as to be immediately available to support the tactical plan upon debarkation and to provide a maximum of flexibility to meet possible changes in the tactical plan. Also see combat organization loading and combat spread loading.
- **combat usable asset inventory.** The sum of the ready-for-issue and the emergency-combat-use only inventories.
- **combined effect bomblet.** A fragmentation- and incendiary-shaped charge ejected by TLAM-D over one or more targets as ordered by the mission planner.
- **command activated sonobuoy system.** An active ranging sonobuoy that may be turned on or off, scuttled, and hydrophone depth increased on command.
- **common tactical picture (CTP).** The common tactical picture is derived from the common tactical dataset and other sources and refers to the current depiction of the battlespace for a single operation within a CINC's

- area of responsibility including current, anticipated or projected, and planned disposition of hostile, neutral, and friendly forces as they pertain to U.S. and multinational operations ranging from peacetime through crisis and war. The CTP includes force location, real time and nonreal-time sensor information, and amplifying information such as METOC, SORTS, and JOPES.
- **common-use sorties.** Those sorties tasked directly by the joint force air component commander in order to achieve the air objectives of the joint force commander campaign. They consist of all sorties not used as direct support.
- **communications electronic operation instruction.** An instruction containing frequencies, circuit assignments, codes and ciphers, call signs, and authentication tables and their use.
- **complement.** For a ship, the numbers, ranks, and ratings of officers and enlisted personnel determined to be necessary to accomplish the ship's wartime objectives.
- **compliant boarding.** In maritime interception operations, a boarding in which all of the following are met: a) suspect vessel complies with the directions of the on-scene commander, b) no apparent passive or active resistance measures are employed, and c) there is no intelligence to indicate a threat.
- **composite warfare commander (CWC).** An officer to whom the officer in tactical command of a naval task organization may delegate authority to conduct some or all of the offensive and defensive missions of the force.
- **confined waters.** Parts of coastal waters where the freedom of movement of vessels is affected by the proximity of land or shallow waters.
- **confirmed intelligence.** Information or intelligence reported by three independent sources. The test for independence is certainty that the information report of one source was not derived from either of the two other sources, usually resulting in reliance on original reporting.
- **conformal array.** A group of hydrophones that follow the contour of the ship. Employed for passive application.
- **conjugate depth.** For a source below the sonic layer depth, that depth below the deep sound channel axis where the sound speed equals the speed at the source depth.
- **consensual boarding.** In maritime interception operations, boarding is conducted at the invitation of the master (or person-in-charge) of a vessel that is not otherwise subject to the jurisdiction of the boarding officer. The voluntary consent of the master permits the boarding, but it does not allow the assertion of law enforcement authority such as search and seizure.
- **consensual visit.** In maritime interception operations, a visit conducted at the invitation of the master (or person-in-charge) of a vessel that is not otherwise subject to the jurisdiction of the boarding officer. The voluntary consent of the master permits the boarding, but it does not allow the assertion of law enforcement authority such as search and seizure. Also called consensual boarding.
- **consequence management.** Interagency services and emergency response force actions essential to mitigate and recover from damage, loss, hardship, or suffering resulting from disasters or catastrophes, either man-made or natural. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **consigned merchant vessels.** Consigned merchant vessels are those vessels that governments or owners have formally placed under naval control.
- **construction battalion unit (CBU).** A naval construction force unit that may be established in the fleet or in the shore establishment. Fleet CBUs fulfill long-term facilities improvement requirements at specific locations. Shore CBUs are used for construction, alteration, repair, and nonrecurring maintenance.

2-17 AUG 2006

- **consumables.** Administrative and housekeeping items, common tools, paints, cognizance symbol II forms, or any other items not specifically defined as equipage or repair parts. Materiel such as general-purpose hardware, metals, lumber, and lubricating oil also are considered to be consumables in procurement transactions but will be treated as repair parts in shipboard issue transactions when the materiel is to be used for accomplishing maintenance actions.
- **contact.** In Navy operations, any discrete airborne, surface, or subsurface object detected by radar, sonar, and/or visual means. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **contact of interest (COI).** In maritime interception operations (MIO), a suspect vessel carrying nonmilitary supplies believed to be enroute to, or outbound from, a place specified by the MIO sanctioning body; or a suspect vessel flying the flag or under charter of a state specified by the MIO sanctioning body.
- **continental margin.** A zone separating the emergent continents from the deep sea bottom; generally consists of the continental shelf, slope, and rise.
- **continental rise.** A gentle slope with a generally smooth surface found between the continental slope and the abyssal plain.
- **continental shelf.** A zone adjacent to a continent and extending from the low waterline to a depth at which there is a marked increase of bottom slope to greater depth (usually about the 100-fathom line).
- **continental slope.** A zone from the outer edge of a continental shelf to the continental rise.
- **contingency support shipping.** Shipping directly related to ongoing activities during a regional contingency operation. This may include crisis response shipping, government-controlled relief shipping, naval operating forces, and naval sealift shipping.
- **continuous operations.** In the context of combat stress, military operations with many pulses of action every day and night, continuing for several days to weeks, which require careful planning and resource allocation to give everyone a minimum of four hours sleep in 24.
- **contrast.** 1. The difference between highlights and shadows in a negative or print. 2. Brightness ratio between the target and its background in a scene.
- **control.** The near-real-time direction of weapons systems and supporting platforms for the accomplishment of assigned missions. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **convection currents.** Whenever the surface water undergoes intensive cooling, evaporation, or freezing, the density of the surface water increases beyond that of the underlying water. As this denser water sinks to a level of the same density, currents are produced by warmer water flowing in to replace the sinking surface water.
- **conventional ammunition.** A generic term that includes all types of nonnuclear/biological/chemical ordnance, such as bullets, rockets, bombs, mines, and guided missiles.
- **convergence zone.** That region in the deep ocean where sound rays, refracted from the depths, return to the surface. They are focused at or near the surface in successive intervals. A convergence zone is a sound-transmission channel in the deep ocean [2,500 to 15,000 feet (850 to 4,500 meters)] produced by the combination of pressure and temperature changes.
- **conversion.** 1. A one-to-one mapping between two coordinate systems that does not involve a change of datum. It is a rigorous mathematical function based on constants. 2. A permanent change of the functional use of a facility or space resulting in a category change to the real property record.

- **coordinated ASW operations.** Those operations in which any combination of ships, fixed-wing aircraft, helicopters, and ASW submarines combine to search for, locate, and/or attack enemy submarines.
- **coordinated strike.** A combined strike by TLAM and TACAIR in which success and survivability for each component are not dependent upon the success or time-on-target of the other component.
- **coordinators.** Coordinators are asset and resource managers. They carry out the policies of the officer in tactical command or composite warfare commander, if assigned, and respond to the specific tasking of either principal or functional warfare commanders. Coordinators differ from warfare commanders in that coordinators execute policy but do not initiate autonomous actions nor do they normally exercise tactical control over assigned assets.
- **core capability.** The set of functions that defines a significant, stand-alone, operationally effective and suitable military capability such that, should no further development occur, the user will have received a significant capability.
- **core competencies.** Skills and knowledge considered fundamental to accomplishing stated capabilities.
- **correlation.** The determination that a system track or local sensor track data report represents the same object or point as another track and/or the process of combining two such tracks/data under one track number.
- **COSAG.** A combination power plant consisting of steam and gas turbines. For normal operations, the steam turbine is employed while a gas turbine provides boost power.
- **counterdetection.** 1. A submarine's ability to acoustically detect a surface ship's radiated noise and echo ranging. 2. Detection of a tracking ship by a contact that is being tracked.
- **countered field.** A minefield in which some level of mine countermeasures is undertaken by the enemy.
- **counterfire attack.** An attack during which own-ship does not hold contact on the launch platform, only on an incoming torpedo.
- **counterfire avoidance.** Actions taken by the ship, incident to the conduct of an attack, to move purposefully out of the expected path of counterfired weapon(s).
- **countermarker.** A unit maintaining contact on a marker from a position that enables it to counter the threat presented by the marker.
- **countermine.** In naval mine warfare, any means employed to prevent the enemy from laying mines to include destruction of mine stockpiles and platforms or the placement of mines in friendly waters to thwart the enemy's capability to deliver mines. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/in-dex.html
- **countertargeting.** A tactic designed to delay or prevent enemy platforms from targeting friendly units.
- **coupling system.** That system by which the drive system and the propulsion system are linked and by which the drive system imparts energy to the propulsion system.
- **course.** The intended direction of movement in the horizontal plane.
- **course line.** A sharp, clear line drawn on a map to denote the desired ground track.
- **course made good.** The actual track made good in a given period of time, taking into account all effective environmental factors. Course made good over the ground is the direction in which a ship has proceeded, measured between two geographic positions. Course made good through the water is the direction in which the ship

2-19 AUG 2006

- is proceeding resulting from the effect of weather but not from the effect of current or tidal stream on the signaled or base course.
- **cover.** Actions to conceal actual friendly intentions, capabilities, operations, and other activities by providing a plausible yet erroneous explanation of the observable.
- **coverage factor.** In SAR, a measure of the search effectiveness or its quality. It equals sweep width divided by track spacing.
- **crisis response shipping.** All shipping employed in support of allied military operations. It will include ships taken from trade, chartered shipping and, when appropriate, national maritime prepositioning ships.
- **critical angle.** The grazing angle of a sound wave with the sea bottom at which total reflection occurs.
- **critical contact of interest.** In maritime interception operations (MIO), a suspect vessel carrying designated contraband, such as military supplies or illegal drugs, believed to be enroute to or outbound from a place specified by the MIO sanctioning body; or a suspect vessel flying the flag or under charter of a state specified by the MIO sanctioning body.
- **critical deficiency.** A deficiency that affects the operational ability of a unit to such an extent that performance of the exercise is below minimum standards. This deficiency might be one of material, personnel, or training, but remedial action is within the capability of assigned personnel.
- **critical depth.** The depth below the deep sound channel (DSC) axis at which the sound speed is the same as it is at the sonic layer depth. The critical depth is the bottom of the DSC.
- **critical vulnerability.** That element of a military force vulnerable to attack and whose degradation or destruction will lead to defeating the enemy's center of gravity and, ultimately, the will to resist.
- **crossover patrol.** A patrol that begins on a barrier line and makes cross-channel tracks that slant away from the barrier line in the direction of target movement. Normally used when scouts have an appreciable speed advantage over the enemy.
- **cryptologic resources coordinator.** The officer delegated some or all of the officer in tactical command's detailed responsibilities for management of cryptologic assets, cryptologic coverage and tasking plans, personnel and augmentation requirements, cryptologic direct support operations, signal security operations, special intelligence communications, direct service interfaces, cryptologic sanitation, and correlation procedures.
- **cueing.** The capability to use contact information generated by analysis of sensed data from any sensor to enable another sensor system to gain contact.
- **cultural competency.** The set of behaviors, attitudes, and policies that come together in an institution or agency, or among a group of individuals, that allows them to work effectively in cross-cultural situations. Cultural competency reinforces the need for understanding the core of another's beliefs and the ability to see the world through another's world view.
- **cumulative probability of detection.** In SAR, a cumulated total probability of detection for repeated searches of the same area found by averaging the individual coverage factors for the completed searches to obtain a mean coverage factor. Abbreviated Pc.
- **cutoff frequency.** That frequency below which an acoustic signal will tend not to be trapped in a layer or duct and is a function of the depth of the layer.
- **cylindrical array.** A group of hydrophones employed for both active and passive detection.

- **D/E ranging.** A method of estimating target range by measuring the arrival angle of acoustic energy reflected off the ocean bottom.
- **daily operations cycle.** The schedule of significant recurring events of the JTF HQ staff. The JTF chief of staff normally establishes this to deconflict the JTF staff schedule. This schedule allows JTF staff members to anticipate when information is required and backward plan to ensure inputs are available when needed. Also called "battle rhythm."
- **damage distance.** In mine warfare, the athwartship range within which a mine must detonate in order to cause a specified level of damage to the target.
- **damage level.** In mine warfare, the measure of desired danger. The four standard categories are kill, imminent loss likely, mission abort, and onboard repairs possible.
- **damage width (Wd).** In mine warfare, the integral of the probability, P(y), of actuation of a mine under specified conditions, integrated only over those values of athwartship distance (y) for which the explosion of the mine is likely to do at least a specified amount of damage. This is the area under an actuation probability curve within the damage distances on each side of the ship.
- **danger area.** That part of a mine's firing area that is inside the damage area of a mine countermeasures ship with respect to the same given mine.
- **dangerous front.** In mine warfare, the athwartship distance in which there is a likelihood that a mine countermeasures (MCM) platform could be damaged by a mine that the MCM platform has actuated.
- **data link reference point (DLRP).** A fixed geographic reference point specified by appropriate authority from which a participating unit/reporting unit can calculate the relative position of own-unit and local tracks. The DLRP is the X-Y grid origin of the tactical digital information link (TADIL) interface.
- **datum.** 1. (ASW) The last known position of a submarine or suspected submarine after contact has been lost. An ASW datum is fixed and not corrected for set and drift. 2. (SAR) The probable location of the search object corrected for drift at any particular moment during the mission.
- **datum area.** An area in which the search object is initially assumed to be located with equal probability throughout the area.
- **datum line.** The line connecting two or more datum points computed for the same specified time, along which the search object is assumed to be located with equal probability.
- **dead reckoning (DR).** Determination of position by advancing a previous position for course and distances.
- **decision support system (DSS).** An automated data process and communications system designed to furnish top management and/or command and control personnel with "what if" information needed to make tactical and strategic planning decisions. The DSS user states an "exploratory" or "model execution" information request in terms of DSS-designated problem statement language. The DSS program interprets the information request and uses data held in the knowledge base in order to generate a response to the DSS user.
- **deconfliction.** In regard to Tomahawk missile operations, measures and procedures established to prevent or resolve interference between friendly forces. 1. airspace deconfliction: Measures and procedures established to prevent or resolve aerial interference between different activities in a common operating area. Airspace deconfliction for TLAM often involves restrictions upon TACAIR altitudes, flight paths, and times at which they may be used in the vicinity of TLAM. Prior measures are the responsibility of the Tomahawk strike coordinator (TSC); the launch area coordinator is responsible for deconfliction in the launch area during the launch window. 2. launch area deconfliction: Measures and procedures established to prevent or resolve interference between Tomahawk firing units and other activity in a common area in which TLAM is launched. Launch area

2-21 AUG 2006

deconfliction includes aerial, surface, and submarine operations in the vicinity of the firing units. 3. missile deconfliction: Measures and procedures established to prevent interference and fratricide among Tomahawk missiles between their launch positions and their intended aim points. Missile deconfliction includes deterministic offsets generated by the missile operational flight software, firing unit measures during engagement planning and launch, and strike planning measures taken by the TSC.

- **decontaminant.** Any substance used to break down, neutralize, or remove a chemical, biological, or radioactive material posing a threat to equipment or personnel.
- **deep layer.** In underwater acoustics, the layer of water between the lower edge of the main thermocline and the ocean bottom. It is characterized by a nearly constant temperature and a positive sound-speed gradient caused by pressure.
- **deep moored mines.** Moored mines with strong, small gauge cables that permit employment at great depth.
- **deep scattering layer (DSL).** In underwater acoustics, a layer or layers in the ocean believed to consist of plankton and fish from which sound rays are scattered or reflected back to the sound source.
- **deep sound channel (DSC).** In underwater acoustics, the main sound channel of the ocean, caused by the negative sound-speed gradient of the thermocline and the positive gradient of the deep layer. The axis of the channel is typically located between 2,000 and 4,000 feet.
- **defensive mine countermeasures.** Countermeasures intended to reduce the effect of enemy minelaying.
- **deflagration.** The physical and chemical change of an explosive that, following initiation, proceeds at a velocity less than that of sound through the deflagration material.
- **deflection.** The angle between the line of sight and the vertical plane through the line of fire, measured in the slant plane through the line of sight and the elevation axis.
- **degaussing range.** An array of underwater sensing devices, either permanently installed on the bottom of a harbor channel or on a mobile unit capable of being established in forward areas by ship or boat, used to measure the magnetic field of ships or boats to determine the effectiveness of their degaussing system.
- **delay arm.** A feature on a mine causing it to remain unarmed for a selected period of time after placement.
- **delay rising mechanism.** A feature or device on a moored mine causing the case to remain attached to the anchor for a selected period of time or prescribed interval after placement.
- **delay time.** In mine warfare, the time between the application of the minimum pulse field and the registration of the look under consideration.
- **delayed fallout.** Radioactive fallout that returns to earth later than 24 hours after a nuclear detonation; it usually ascends into the stratosphere and is distributed worldwide.
- **deliberate attack.** In ASW, an attack delivered with maximum accuracy when the tactical situation allows time to obtain accurate attack data. Also see urgent attack and DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **delousing.** Searching in the vicinity of the task force main body to detect any potential hostile submarines.
- **demodulation.** The extraction of low frequencies from their carrier frequency.
- **demolition.** The destruction of structures, facilities, or materiel by use of fire, water, explosives, mechanical, or other means.

- **density.** The density of seawater is the mass per unit volume. It increases with increasing salinity and pressure and decreases with increasing temperature.
- **deperming.** The use of high currents in coils temporarily arranged around a ship to reduce its magnetic signature.
- **deployed period.** A ship is considered deployed when it is operating out of home port for more than eight weeks or when specified as deployed by the fleet commander.
- **deployment cycle**. The deployment cycle is that period of time from the commencement of one deployment to commencement of the next deployment.
- **depression/elevation (D/E).** The feature of a sonar set that enables its beam to be trained in the vertical direction.
- **depressor.** A hydrodynamic planning device used to obtain and maintain proper depth of sweep wire in a mechanical sweep.
- **depth excess (DE).** In underwater acoustics, 1. The difference between the bottom depth and the depth at which the sound velocity is equal to either the surface velocity when there is no layer depth, or the maximum velocity in the surface layer. 2. The difference between the depth at which the maximum near-surface sound velocity recurs and the bottom depth. It is applied to convergence zone propagation.
- **depth required.** In underwater acoustics, the minimum depth required for a reliable convergence zone to exist. It is 200 to 300 fathoms below the critical depth.
- **depth separation.** The vertical distance that must be maintained above and below the submarine between: a) the highest fixed part of the submarine structure and the lowest point of a ship or towed device, b) the submarine's keel and the bottom, c) the vertical distances (buffer) between two defined depth zones, or d) the vertical distance between the highest fixed part of a submarine's structure and the lowest fixed part of a submarine operating above.
- **destroy.** A tactical task to physically render an enemy force combat-ineffective unless it is reconstituted. To render a target so damaged that it cannot function as intended nor be restored to a usable condition without being entirely rebuilt. Also see "destroyed" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **destructor.** 1. An explosive or other device for intentionally destroying classified equipment, a missile or aircraft, or a component thereof, either for safety considerations or to prevent compromise. 2. Bomb converted to a bottom mine by addition of a kit (mine warfare).
- **detained vessel.** In maritime interception operations, a suspect vessel that has been queried or boarded and is believed to be carrying contraband. The suspect vessel remains in this status until changed by higher authority.
- **detection circle.** A circle described around a screened force and within which a submarine may be expected to make contact.
- **detection probability.** In naval mine warfare, the ratio of the number of mines detected on a single run to the number of detectable mines within the characteristic detection width. Also see "characteristic detection probability" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **detection range.** The range at which detection occurs. Detection range can be estimated or calculated or may be the actual detection range.

2-23 AUG 2006

- **detection threshold.** In underwater acoustics, the point in time when a signature component can be distinguished from the background noise.
- **detection width.** In naval mine warfare, the width of path over which mines can be detected on a single run at a given probability of detection (Pd). Also see "characteristic detection width" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **detector.** Any mechanism by which the approach or presence of a chemical or biological agent is made known.
- **detention.** In maritime counterdrug and alien migrant interdiction, the delaying or holding up of a vessel, aircraft, and/or person(s) for a period of time for the purpose of inspection, investigation, search, or until discrepancies are corrected; this exercise of control is frequently used as a preliminary step for law enforcement actions.
- **diagnostic.** Those actions taken to identify and evaluate unexploded explosive ordnance.
- **diffraction loss.** The loss of sound energy that occurs when sound rays traveling in a sound channel experience leakage out of the channel and thus out of the main wave front.
- **digital scene matching area correlation (DSMAC).** A navigational update system in the conventional TLAM that compares binarized ground reference information loaded into the missile prior to launch with optically observed ground images to provide accurate, precise fixes.
- **direct fire.** A form of NGS fire used against targets that are visible from the ship and that may be tracked using the ship's fire control system. Also see indirect fire. See direct fire in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **direct path (DP).** In underwater acoustics, a propagation path composed only of those sound rays that travel from source to receiver without any intervening reflections (that is, surface or bottom) and do not enter a ducted mode.
- **direct support.** In naval operations, the support provided by a unit or formation not attached or under the tactical command of the supported unit or formation but required to give priority to the support operations required by that unit or formation. A direct support unit operates under the tactical control of a supported force commander. Operational control and tactical command remain with the assigning authority. Also see associated support and integrated operations.
- **direct support sorties.** Component direct support sorties are those that are planned and executed by a component commander in direct support of his/her own mission in accordance with joint force commander guidance, or those sorties needed by the component commander for the immediate defense of his forces.
- **directivity index (DI).** A measure of the amount by which an array, through its beam pattern, discriminates against noise in favor of a signal.
- **disposition.** An ordered arrangement of the stations of two or more formations proceeding together for any purpose, such as cruising, air defense, or replenishment. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **disposition axis.** A reference line for stationing two or more formations in relation to each other.
- **distance.** The spatial separation of two points, measured by the length of a line joining them. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- distance line. A lightweight line that has sound-powered telephone lines for two circuits interwoven and that is

marked to indicate the distance between ships during underway replenishment. The zero end is secured to the delivering ship's rail, and the outboard end is tended by the receiving ship.

distress phase. See "search and rescue incident classification" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

divergence. A name given to energy loss as a function of distance.

diverted vessel. In maritime interception operations, a suspect vessel that has been queried or boarded, found to be in violation, and diverted to a neutral port requested by the detainee or diverted to a port selected by the cognizant commander.

divided fire. Directing the fire of one ship's batteries against two targets.

Doppler. A shift in the frequency by the relative motion between a sensor and a source. If a sound source is moving toward a sensor, the sensor will receive more cycles during a given time interval than the source is producing. If a sound source is moving away, the converse will occur.

dose rate. A measure of the amount of ionizing radiation an individual is exposed to, per unit of time, commonly expressed in units of gray (or rads) per hour.

downlink. In submarine usage, one-way communications to a submarine.

downrange travel. The horizontal distance the weapon travels from release to impact.

downslope enhancement. Acoustic energy from a source in shallow water changes from a bottom bounce path to a convergence zone or sound channel path as it travels to deeper water and is concentrated down the slope to a receiver in deep water. Also called the megaphone effect. See upslope enhancement.

drift. The vectorial movement (direction and distance) of the search object caused by momentum, drag, wind, water, or other external forces. See DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

drifting mine. A buoyant or neutrally buoyant mine, free to move under the influence of wind, waves, current, or tide.

ducting. A mode of propagation of electromagnetic energy, usually in the lower layers of Earth's atmosphere, where the waves are bent by atmospheric refraction. This creates a duct or waveguide effect where the waves are trapped and partially follow the Earth's curvature, causing part of the radiated and target-reflection energy of a radar system to be guided over distances far greater than the normal radar range.

dummy load. Resistive termination or other device that closely simulates the characteristics of a radio frequency transmitter system antenna but does not radiate an appreciable amount of radio frequency energy.

duplex. Circuit that provides two channels or frequencies linking two different stations, allowing the simultaneous exchange of information.

duplicate track numbers. The same track number used by two or more investigating units for two or more different tracks.

duty. An identified block of related functions within a larger command structure that can be assigned to a single subordinate. Assignment automatically delegates the requisite authority for command and control required to fulfill the tasking. With the delegation of authority comes the inherent responsibility of the subordinate to the assigning superior for execution of the task in accordance with known orders and procedures.

2-25 AUG 2006

- **dwell time.** The period of time that a target will remain stationary or that an activity will continue until completed. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **early fallout.** Radioactive fallout that returns to Earth within 24 hours after a nuclear detonation. Also referred to as local fallout.
- **echo.** In active sonar, the sound waves generated by the projector to the target and reflected from the target back to the hydrophone or source.
- echo level. In active sonar, the level or strength of returning echo over a given range expressed in dB//μPa.
- **echo ranging.** The process of determining range to an underwater object by measuring the interval of time necessary for a transmitted pulse of sonic or supersonic energy to be reflected by that object.
- **echo sounding equipment.** 1. Sonar equipment used to measure the depth of water beneath the keel of a ship by obtaining echoes from the bottom. 2. Fathometer.
- **economic shipping.** Shipping employed by nations to carry cargoes in support of their civil shipping operating commercially not in support of the military. In crisis regions, this category also may include privately chartered relief shipping not under direct military control.
- **eddy.** 1. Circular water movement usually formed where currents pass by an obstruction between two oppositely flowing currents or along the edge of a permanent current. 2. Large water masses, either cold or warm, that break off from their parent water mass into a different water mass yet retain their specific properties for long periods (months) before being assimilated.
- **effective range.** The maximum distance at which a weapon may be expected to inflict casualties or damage.
- **effective visibility.** In SAR, the approximate distance that an automobile may be recognized from an aircraft at a particular search altitude. Used to determine search sweep widths over land.
- **Ekeland range.** A method that provides an estimate of target range based on own-ship's motion and target bearing rates derived from the time/bearing plot.
- **electrical depth.** In mine warfare, an environmental parameter associated with electrode sweeps used when electrical depth is greater than actual depth. This occurs when the upper layer of the seabed becomes saturated with seawater such that the conductivity of this layer approximates the conductivity of the seawater.
- **electronic countermeasures (ECM).** Actions taken to prevent or reduce an enemy's effective use of the electromagnetic spectrum; includes electronic jamming and electronic deception, specifically manipulative deception, simulative deception, and imitative deception.
- **electronic intercept.** Actions taken to search for and identify electronic emissions.
- **electronic security.** The protection resulting from all measures designed to deny unauthorized persons information of value that might be derived from their interception and study of noncommunications electromagnetic radiation (e.g., radar).
- **emission.** Radio waves radiated into space by a radio transmitter or the process of ejecting electrons from the surface of a material under the influence of heat, radiation, or other sources.
- **employment cycle.** For ships, this cycle extends from the completion of one regular overhaul or, upon commissioning in the case of new ships, through the completion of the subsequent overhaul.

- **enabling run.** The distance along the torpedo track from the launch point to the point at which the torpedo enables.
- **endfire.** In underwater acoustics, a reference to a signal detected at one of the extreme ends of a sonobuoy plant or fixed array.
- **enemy course of action (ECOA).** Broad and conclusive actions that an enemy force can carry out under conditions favorable to them. Each ECOA represents a major option open to an enemy in the employment of the force as a whole.
- **engagement grid.** In information operations, the application of physical means to affect and shape the battlespace. The engagement grid equates to decision superiority based on superior information filtered through the commander's experience, knowledge, training, and judgment; the expertise of supporting staffs and other organizations; and the efficiency of associated processes, thus enabling the commander to employ speed of command and to achieve overwhelming effect at precise places and times.
- **engagement planning.** The process and procedures performed by the firing unit to build the overwater portion of a TLAM mission from the launch position to the first preplanned waypoint. Decisions for each plan include the time and direction of launch, launch position, altitude commands, waypoint employment, and quantity of ordnance.
- **equipage.** Those items that require management control afloat because of any one or a combination of high unit cost, vulnerability to pilferage, and/or are essential to the ship's mission. Equipage does not encompass installed mechanical, electrical, ordnance, or electronic equipments (less personal computers), components, or systems. Equipage items generally are identifiable to end-use applications aboard ships to the extent that an allowed quantity of the item can be and is determined on an individual ship basis.
- **escort jamming.** An electronic attack tactic whereby a jamming platform accompanies the strike vehicles and provides protection by jamming enemy electronic systems.
- **escort leader.** Designated by the striking group commander to command all fighter escort aircraft from the striking group. May also be the strike commander, if so designated.
- **estimated launch position (ELP).** In Block III weapons control systems, the ELP is the projected position of own-ship at the launch time calculated for a time-on-top engagement plan, based on current course and speed.
- **evasion.** As used in ASW operations, a change in the planned route or speed (but not the destination) of a force or independent ship, usually ordered by the officer in tactical command for tactical reasons.
- **evasion time.** The time available to evade ordnance after the last useful target data is received by the attacker or the launching of ordnance, whichever occurs first. During this interval, the target may maneuver, while the attacking ship is limited in effecting counteraction.
- **evasive steering.** Alterations of course to complicate an attacker's fire control problems by zigzagging, sinuating, and weaving.
- **examination anchorage.** An anchorage assigned for the purpose of detaining ships for examination. The anchorage is established outside the harbor defenses, and suspect ships are anchored there while their suspect status is investigated and resolved. It is a precaution necessary to prevent the covert introduction of hostile cargo or special weapons.
- **excess hazardous material.** Unused hazardous material in full, properly sealed containers that can be returned to the supply system for reissue.
- **exchange rate.** In mine warfare, the number of mines laid per casualty.

2-27 AUG 2006

- **exfiltrate.** The movement of personnel or units out of or away from areas under enemy control. Also see "exfiltration" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **expanded maritime interception operations (E-MIO).** Broadened maritime interception operations to intercept targeted personnel or material that poses an imminent threat to the United States. E-MIO may involve multinational forces and may be implemented without sanctions.
- **expected casualties.** In naval mine warfare, the average number of ship casualties in N transits of a minefield.
- **expeditionary airfield.** A prefabricated and fully portable airfield. The effort and assets required for the installation/operation of an expeditionary airfield can require the participation/support of all elements of the Marine air-ground task force.
- **expendable bathythermograph (XBT).** A bathythermograph launched from a ship (SXBT), submarine (SSXBT), or aircraft (AXBT) that records water temperature versus depth down to 2,500 feet.
- **expendable ordnance.** See conventional ammunition.
- **exploratory-reconnaissance objective.** In naval mine warfare, determining whether mines are present or not and, if so, establishing the limits of the mined area. This is usually the first objective when it is believed that a minefield has been encountered.
- **explosive ordnance reconnaissance program.** Reconnaissance involving the investigation, detection, location, marking, initial identification, and reporting of suspected unexploded explosive ordnance by explosive ordnance reconnaissance agents in order to determine further action.
- **extended maneuvering interval.** The standard maneuvering interval plus 500 yards, unless otherwise ordered, to allow for station-keeping errors.
- **extraction.** The removal of personnel or units from areas under enemy control by some type of platform.
- **false alarm density.** The number of false targets per square nautical mile.
- **false target.** An echo or noise source other than the real target, which can cause false detections and false homing.
- **false target generator.** Jammer that radiates apparent target return signals that can be received and processed either completely or in part by a victim radar but which are actually false, confusing, or nonexistent in range, angle, and/or velocity.
- **fastrope.** A means of inserting forces from a helicopter by sliding down a line lowered from the helicopter using only handgrip tension to control the rate of descent.
- **field-of-view.** In photography, the area in the object space that the camera will record when the picture is taken. Also see "field of view" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **figure of demerit (FOD).** 1. The maximum decrease in own-ship's radiated noise that can be sustained and still be detected by a submarine 50 percent of the time. 2. An estimated figure of merit used by opponent against own-platform.
- **figure of merit (FOM).** A measure of the effectiveness of a sonar set for a particular situation. It is the maximum allowable propagation loss that a signal can suffer for a system to meet a desired performance criterion, usually a 50 percent probability of detection.

- **filter.** A device for separating frequency components of a signal. This is accomplished by allowing components in one or more frequency bands to pass through the filter relatively unattenuated, while attenuating components in other frequency bands. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **final diameter.** The diameter of the circle that will ultimately be described by a ship with a constant rudder angle when a turn of 360° has been completed.
- **fire support officer (FSO).** A full-time coordinator of all fire support and the field artillery commander's representative at the supported headquarters.
- **firebreaks.** Administrative and physical steps taken to reduce the risk of an inadvertent weapons firing.
- **first preplanned waypoint (FPPWP).** The starting point of the cruise missile support activity-planned portion of a TLAM mission to which the firing unit's engagement plan delivers the missile. The FPPWP has a specified latitude, longitude, altitude, and departure heading.
- **flag state.** The nation where a given vessel is legitimately registered.
- **flash-bang.** A normally nonlethal explosive munition used to create diversion, confusion, and/or fear. It is employed during an assault. Also called flash-crash.
- flashing. See deperming.
- **fleet issue load list (FILL).** Consolidated listing of material to be carried onboard combat stores ships for the support of operating afloat forces to ensure maximum fleet readiness. It is based on actual past demands of those items most commonly requested by the fleet units.
- **fleet mail center.** A DOD facility operated by the U.S. Navy to send, receive, distribute, combine, transfer, and dispatch military mail for transportation to, from, and in overseas areas.
- **fleet support ship.** A government-owned ship operated by the Military Sealift Command with a civilian crew augmented by a military department. This type of ship is employed in direct support to the active fleets of the U.S. Navy, providing logistics support in a manner comparable to that provided by Combat Logistics Support Force ships manned and operated by U.S. Navy personnel.
- **flex deck.** Aircraft carrier operation where unscheduled, continuous launch and recovery of aircraft is made possible.
- **flight.** Any number of aircraft, regardless of type (fixed-wing or helicopter), proceeding in company on a common mission or to the same destination.
- **float light.** A day and night seamarker dropped by an aircraft or surface ship to mark a reference point.
- **float pendant.** In mine warfare, a specified length of wire that attaches the marker float to the depressor or otter and determines the sweep depth and sweep path at the outboard end of mechanical sweep gear.
- **floe.** Any relatively flat piece of sea ice 60 feet or more across. Floes are classified according to horizontal extent as follows (size/horizontal extent): giant/over 5 nm; vast/1 to 5 nm; big/500 to 2,000 yards; medium/300 to 1,500 feet; and small/60 to 300 feet.
- **flow noise.** The noise produced by water movement past the transducer or hydrophone array housing; noise produced at the hull of a moving ship; noise created by turbulent flow in the turbulent boundary layer around the hydrophone.

2-29 AUG 2006

- **focus of effort.** The most important task to be accomplished by the force. It is the critical vulnerability chosen to exploit, the paramount objective desired to accomplish. All actions should be oriented on that task.
- **force majeure.** 1. An external, irresistible force or condition (natural or man-made such as a storm, fire, or disablement) of such severity that it threatens destruction of the vessel or loss of life unless immediate response action is taken. 2. An event that cannot be anticipated or predicted that results in actions contrary to some law.
- **force module (FM).** In maritime prepositioning force operations, a task organization that is tailored and time-phased to meet specific challenges of operational environments ranging from permissive (i.e., foreign humanitarian assistance) to hostile (i.e., major theater war in any area of responsibility). Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **force over-the-horizon track coordinator (FOTC).** The command designated to develop, maintain, and broadcast a common tactical surface picture to all participating ships in a battle group (BG). The FOTC fuses nonorganic data with the data gathered by organic sensors in the BG.
- **force self-defense areas.** In maritime operations, areas existing within and as subsets of a maritime area of operations. Size and geometric configuration of these areas/zones may differ from warfare mission area to warfare mission area. See surveillance area; classification, identification, and engagement area; and vital area.
- **force sustainment.** Capabilities, equipment, and operations that ensure continuity, freedom of action, logistic support, and command and control.
- **forcible entry.** Seizing and holding a military lodgment in the face of armed opposition.
- **foreign object debris (FOD).** Any material found in the vicinity of flight operations that could contribute to the accidental damaging of an aircraft, generally as a result of an aircraft ingesting such material into an engine and damaging its internal workings. Also see "foreign object damage" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **formation.** An ordered arrangement of two or more ships, units, or aircraft proceeding together under a commander.
- **formation axis.** A reference line about which the stations, except screening stations, of a circular formation of ships are arranged. In a formation consisting of both a main body and a screen, the formation axis is the axis of the main body but is not the axis of the screen.
- **formation center.** A position designated as the center of an ordered arrangement of ships, normally the geometric center. It is the point of origin of a formation axis.
- **formation guide.** The ship in each formation of a disposition on which the units in that formation take and keep station.
- **forward logistic site (FLS).** The forward-most land-based transshipment point that provides the bridge between an advanced logistic support site and units at sea. Also see "naval forward logistic site" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **forward presence.** Maintaining forward deployed or stationed forces overseas to demonstrate national resolve, strengthen alliances, dissuade potential adversaries, and enhance the ability to respond quickly to contingencies.
- **frag.** To lay on or assign as a mission or target. Derived from the term "fragmentary order" as defined in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

- **free weapon.** A weapon available for use that is not currently engaging a target and is capable of engaging at least one target.
- **free-in-air-dose.** Radiation that would be measured in air at a certain point. Military tactical dosimeters measure free-in-air-doses.
- **frequency agility.** Ability of an electronic transmitting system to quickly change operating frequency.
- **front.** In oceanography, the interface or transition zone between two water masses of different characteristics. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **full-dimension protection.** The ability of the joint force to protect its personnel and other assets required to decisively execute assigned tasks.
- **function.** A defined activity that may be delegated to subordinates through specific assignment or as part of a duty within the force command structure.
- **fundamental frequency.** In underwater acoustics, the fundamental frequency of a group of frequencies is the highest frequency that could produce the whole group as harmonics and is, therefore, the greatest common divisor of the frequencies in the group.
- **furthest-on-circle.** In ASW operations, an expanding circle centered on a datum or search center, of which the radius at any one time is a command estimate of maximum submarine travel from datum plus datum error.
- **fuzing range.** The maximum distance from a target at which a proximity fuze can be expected to function.
- **gambit.** A deception tactic that aims to induce a submarine to take some action that may render it liable to detection.
- **gap.** In naval mine warfare, an area within a minefield, obstacle belt, or enemy defensive scheme that is relatively free of mines, obstacles, fires, or other substantial resistance (which may include a break in enemy tactical dispositions or formations), thus allowing an attacking force to penetrate with greater speed and power. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **gear-reduction ratio.** The ratio of the speed of the input shaft of a gear train to the output shaft. With regard to a marine propulsion plant, it is usually a reference to the ratio between the speed of the prime mover and the speed of the propeller shaft.
- **general agency agreement (GAA).** Pertains to government-owned ships operated under cost plus fixed-fee contracts by commercial ocean carriers acting as general agents for the Maritime Administration, U.S. Department of Commerce, and with whom Military Sealift Command has entered into agreements for the exclusive use of such ships.
- **general support fire.** Those artillery and naval gun fires delivered for the support of the landing as a whole by ships or artillery units not providing direct support.
- **generated target bearing (relative or true).** The relative or true bearing of a target as determined by a computing instrument from previous positions of own-ship and target and an established rate of change of bearing.
- **geodetically controlled imagery.** For imagery, the photogrammetric adjustment of one or more images relative to each other and to an absolute (fixed) ground reference system. Also called geopositioned imagery.
- **geodetic coordinates.** The quantities of latitude, longitude, and height that define the position of a point on the surface of the Earth with respect to the ellipsoid surface.

2-31 AUG 2006

- **geodetic datum.** Defines the position of a coordinate system in relation to the Earth. This definition includes the determination of the origin, the scale and the orientation of the axes, and typically includes an ellipsoid definition.
- **geodetic height.** The height above the reference ellipsoid, measured along the ellipsoidal outer normal to the point in question. Also called ellipsoid height.
- **geoid.** An equipotential surface of the Earth's gravity field that most nearly coincides with mean sea level. The direction of gravity is everywhere perpendicular to the geoid. Oceanographic effects cause minor deviations between mean sea level and the geoid of generally less than one mile.
- **geophone.** In mine warfare, a sensor used in seismic mines.
- **geopositioned imagery.** For aerial reconnaissance imagery, the photogrammetric adjustment of one or more images relative to each other and to an absolute (fixed) ground reference system. Also called geodetically controlled imagery.
- **geospatial information.** Maps, charts, other publications, and digital information associated with a specific geographic location or region defined by geographic or grid coordinates. Also see "geospatial information and services" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **global ordnance positioning.** The fleet process of determining optimum locations worldwide for ammunition stocks. It considers combat and noncombat expenditure requirements, force deployments, throughput and political factors, training locations, and other related factors.
- **gradient.** The rate of change of one quantity with respect to another, especially the rate of change of temperature with depth. A positive gradient is a temperature increase with increasing depth; a negative gradient is a temperature decrease with increasing depth. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **graywater.** Wastewater from deck drains, lavatories, showers, dishwashers, laundries, garbage grinders, and shipboard medical facilities that does not include industrial waste, infectious waste, or human body waste.
- **grazing angle.** In underwater acoustics, the angle that a sound ray makes with an ocean boundary, measured in degrees to the horizontal or boundary surface.
- **grid.** A two-dimensional (plane) Cartesian coordinate system created by a map projection. Used to simplify reading coordinates from a map. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **gridlock.** A procedure for determining data registration corrective values (pads) by comparing remote tracks received from a designated gridlock reference unit to local data.
- **gross explosive weight.** One of the two systems of weight measurement that is significant in planning for ammunition storage. The gross explosive weight is the total weight of the packaged round measured in short tons (or pounds, when quantities are fractional tons).
- **ground effect.** 1. A condition created when a helicopter's rotor downwash is altered in its flow by contact with the ground. This occurs while hovering or in very slow flight within one rotor diameter of the ground. The result of ground effect is that the helicopter requires less power to hover than when hovering out of ground effect.

 2. The generation of an air cushion artificially created so that a vehicle is supported on the air cushion close to the ground but nevertheless riding free; hence, utilizing this effect to eliminate ground friction. Also called ground cushion.

- **ground gain.** In air reconnaissance, the distance (usually in feet) that the aircraft travels during the time interval between two consecutive exposures (or frames).
- **ground resolution.** In air reconnaissance, the smallest area or object on the ground that is detectable in the negative. Factors affecting ground resolution include focal length, altitude, film type, target contrast, atmospheric conditions, and individual camera characteristics.
- **ground resonance.** A condition of geometric imbalance in helicopters caused by offset dynamic forces when the helicopter makes improper contact with the deck. If allowed to continue, destruction of the helicopter is imminent. Improper tiedowns aggravate the onset of ground resonance.
- **ground riverine close fire support.** Supporting fires by organic or attached units of the ground component of the mobile riverine force, including boat-transported and/or barge-mounted artillery.
- **guerrilla.** An irregular, predominantly indigenous combatant who conducts paramilitary operations in enemy-held territory. Also see "guerrilla," "guerrilla force," "guerrilla warfare," and "unconventional warfare" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **guide.** A designated ship on which other evolution units take and maintain their stations. The term is modified by the words disposition, formation, station unit (or other unit as appropriate) to specify a particular guide. Also see line guide.
- **guillotine.** A portable, explosive, cable-cutting device used to sever the airborne mine countermeasures tow wire in an emergency.
- **gun laying.** The process of positioning guns in train and elevation in a predetermined relationship with respect to the line of sight. The line of sight may be estimated at an aloft director, generated in the plotting room, or established at the gun.
- **gun wear.** Normal gun bore erosion, calculated in terms of equivalent services rounds. Gun wear reduces initial velocity, terminal accuracy, and maximum range.
- **gunfiring rates.** 1. deliberate: fire delivered at a rate intentionally less than normal to permit adjustment corrections, to meet specific tactical requirements, or to conserve ammunition. 2. rapid: no check fire is used for the purpose of applying corrections. It is the maximum rate that can be maintained for a given period. 3. slow: fire deliberately delayed to allow for the application of corrections or to conserve ammunition.
- **gyro angle.** In underwater warfare, the angle, measured left or right, between the torpedo tube longitudinal axis and the desired torpedo course as computed by the fire control system.
- **gyro angle order.** The angular quantity transmitted to the torpedo that determines its initial postlaunch turn to preenable course, measured relative to the ship's head.
- **half channel.** In underwater acoustics, an upward-refracting condition where the sound-speed gradient is positive from the surface all the way to the bottom. In a half channel, sound waves behave as if in a very thick surface duct.
- **hang fire.** Failure of the propelling charge to burn properly, causing delayed firing. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- harassing (air). The attack of any target within the area of land battle not connected with interdiction or close air support. It is designed to reduce the enemy's combat effectiveness. Also see "harassment" and "harassing fire" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

2-33 AUG 2006

- **harassment mines.** Mines set to function against sweepers or to project the psychological threat of a minefield.
- **harbor approach defense (HAD).** The employment of forces to ensure the unimpeded use of an inshore coastal area, including a defensive sea area, by friendly forces and, as appropriate, to deny the use of the area to enemy forces.
- **harbor defense area.** Tactical subdivisions established to provide early detection, location, and identification of enemy surface or underwater craft approaching within striking distance of ships at anchorage or harbor installation.
- **harbor defense commander (HDC).** An officer designated by the Joint Task Force Commander or Naval Coastal Warfare Commander to conduct inshore surveillance, interdiction, vessel movement control, and waterside security operations in a port, harbor, anchorage, or designated defensive sea area.
- **harbor screen (sortie or entry).** A screen about a harbor entrance to give antisubmarine protection to ships entering or leaving the harbor.
- **harmonic.** In underwater acoustics, a harmonic is a frequency that is an integer multiple of the fundamental frequency. The second and third harmonics of a 10-Hz fundamental, for example, will occur at 20 Hz and 30 Hz respectively.
- **harmonic chart.** An aid used in determining harmonic relationships. It lists at least the first 0 harmonics for every fundamental frequency from 1.0 Hz to 51.8 Hz (at 0.1-Hz intervals).
- **haven.** 1. Safe area located in the forward operating area where ships can be staged for provisioning or repair, or to await tasking. 2. A depth band in which a submarine will be safe from torpedo attack due to the stratum inhibits placed on the torpedo by floor and/or ceiling presets. Also see "havens (moving)" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **hazardous material (HAZMAT).** Any material that because of its quantity, concentration, or physical or chemical characteristics may pose a substantial hazard to human health or to the environment when released including, but not limited to: aerosol containers, flammable materials, toxic materials, corrosive materials, oxidizing materials, and compressed gasses.
- hazardous substance. Either a hazardous material or a hazardous waste.
- hazardous waste (HW). 1. A solid waste or combination of solid wastes that because of its quantity, concentration, or physical, chemical, or infectious characteristics may: a) cause or significantly contribute to an increase in mortality or an increase in irreversible or incapacitating reversible illness, or b) pose a substantial present or potential hazard to human health or to the environment when improperly treated, stored, transported, disposed of, or otherwise managed. The term solid waste includes liquid, semi-solid, or contained gaseous material. 2. Any waste that requires special precaution in its storage, collection, transportation, treatment, or disposal to prevent damage to persons or property, including explosive, flammable, volatile, radioactive, toxic, and pathological wastes.
- **heat strain.** The body's reaction to heat stress. The reaction may be local, such as a burn, or generalized, such as an increase in core (inner) body temperature.
- **heat stress.** Subjecting the body to higher than normal temperatures. Heat stress may be caused by a high temperature environment or by wearing clothing, such as a firefighter's ensemble, that impedes the body's normal cooling.
- **height above bottom (HAB).** In mine warfare, the distance from the seabed to the moored mine case or minelike object.

- **helicopter action group (HAG).** A unit comprised of two or more helicopters that are assigned to counter a particular surface threat.
- **helicopter control ship (HCS).** A commander or ship delegated by the officer in tactical command to take tactical control of all helicopters. It will normally be the screen commander, except in the case of windline screening.
- **helicopter element coordinator (HEC).** The officer delegated some or all of the officer in tactical command's detailed responsibilities for management and coordination of rotary wing air assets.
- **helicopter wave.** One or more helicopters grouped under a single leader and scheduled to land in the same landing zone at approximately the same time. A helicopter wave comprises one or more flights and can consist of helicopters from more than one ship. Also see "wave" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **Helmholtz resonance.** In underwater acoustics, tones produced by water flow past an opening in a ship superstructure.
- **high seas.** All parts of the sea that are not included in the exclusive economic zone, the territorial sea, the internal waters of a state, or the archipelagic waters of an archipelagic state.
- **highline method of transfer.** A means of transferring light and medium cargo underway in which a highline (wire or synthetic line) between the delivering and receiving ships supports a trolley with cargo hook attached.
- **holddown.** An operation designed to keep a submarine submerged, limiting it to its submerged capabilities for gaining intelligence, communicating, and gaining attack position, and thus forcing it to deplete its battery capacity.
- **hold-down.** In ASW, an operation designed to keep a diesel-electric submarine submerged, thus limiting it to its submerged capabilities in attacking, gaining intelligence, and communicating, and forcing it to use up battery capacity.
- **home on jam (HOJ).** Angular and/or range tracking of a target by a missile or other weapon seeker that utilizes the jamming signal radiated by the target.
- **host nation support operations.** Operations conducted to support the security, stability, and well-being of other governments and populations. These operations include long-term programs included in nation assistance, short-term efforts included in humanitarian assistance, and disaster relief and support to insurgency.
- **host/tenant agreement.** An agreement between two commands outlining the services that the installation will provide to the tenant and the tenant's responsibilities.
- **hostile country vessel.** A vessel that, because of country of registry, ownership, charter, or crew makeup, is controlled in or prohibited entry to the harbor defense commander's area of operations.
- **hot pursuit.** A situation where a vessel is being chased or pursued after having violated a coastal state's laws, and the chase extends beyond the normal jurisdictional bounds of the pursuing vessel(s). Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **hot run.** A torpedo that starts its propulsion motor or engine without being released from the submarine.
- **hot zone.** Area immediately surrounding a dangerous goods incident, which extends far enough to prevent adverse effects from released dangerous goods to personnel outside the zone. The zone also is referred to as exclusion zone, red zone, or restricted zone in other documents.

2-35 AUG 2006

- **hover.** A condition of flight in which all relative or actual movement has ceased. Also see "hovering" and "hovering ceiling" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **hull-to-emitter correlation (HULTEC).** Association of a radar pulse repetition frequency/pulse repetition interval to a specific platform because of the uniqueness and stability of the emitter and the accuracy of the measurement system.
- **hung ordnance.** Airborne weapons that cannot be fired or dropped because of weapon, rack, or circuit malfunction. Also see "hung weapons" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index html
- hydrodynamic noise. See flow noise.
- **hydrophone.** In acoustic mine and underwater warfare, the detecting element in sound equipment that converts the sound vibratory pressure to an electrical signal.
- **hydrophone sensitivity (HS).** A decibel function that relates hydrophone voltage output to the sound pressure level sensed in the water, expressed in units of dB//1 volt μPa.
- **ice cover.** The ratio in tenths (or eighths) of the sea surface actually covered by ice to the total sea surface, both ice-covered and ice-free, at a specific location or over a defined area. Also called ice concentration.
- **ice edge.** The demarcation at any given time between the open sea and sea ice of any kind, whether fast or drifting. The ice edge may be termed compacted or diffuse.
- **ice field.** Area of pack ice that consists of floes of any size and is greater than 5 nm across.
- **icebound.** A harbor, inlet, etc., is icebound when navigation by ships, except with the assistance of an icebreaker, is prevented by the presence of ice.
- **identification.** The determination of the exact nature of an object that has been detected and classified. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **identified risk.** A risk determined by applying severity and probability analysis to an identified threat.
- **illumination.** The amount of light striking a surface. The common unit of measurement is the foot-candle (ft-c).
- **illuminator.** The part of a fire control system designed to provide illumination for semiactive weapon homing.
- **image resolution.** In air reconnaissance, the ability of the entire photographic system, including lens, exposure, and other factors, to render a sharply defined image. Expressed in line pairs per millimeter (lp/mm).
- **indicated Mach number (IMN).** Airspeed, compared to the speed of sound, as calculated by onboard instruments and uncorrected for the effects of humidity, temperature, atmospheric pressure, or wind.
- **indications and warning.** Phrase used to describe an indication of an enemy course of action and/or early warning of impending hostile action. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **indicators.** 1. Positive or negative evidence of threat activity. 2. Any characteristic of the area of operations that points toward threat vulnerabilities or the adoption or rejection by the threat of a particular capability. 3. Activities or information that may influence the commander's selection of a course of action.
- **INDIGO.** A message in U.S. message text format used to order the execution of conventional, land-attack cruise missile launches.

- **indirect fire.** A form of NGS fire used against targets that cannot be seen from the ship. Also see direct fire. See indirect fire in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **industry-owned, bareboat-chartered ships.** Those ships that the owner delivers to Military Sealift Command (MSC) for an extended period of time (usually 20 years), vesting in MSC for that period of time most of the incidents of ownership (e.g., manning, operation, and control). These ships are designated U.S. Navy ships and use the prefix "USNS" with the ship name and the letter "T" as a prefix to the ship classification (e.g., T-AKR). These ships may be either MSC operated (civil service) or contractor operated.
- **industry-owned, time-chartered ships.** These are commercially owned ships, chartered to Military Sealift Command (MSC) for a period of time. MSC has control of the ship and directs the movement (unless operational control has been transferred).
- **in-extremis hostage recovery.** Direct action mission to locate, recover, and restore to friendly control persons held captive, isolated, or threatened in a situation of such exceptional urgency that immediate action must be taken to minimize imminent loss of life or catastrophic degradation of the political or military situation.
- **influence field.** In mine warfare, the distribution in space of the influence of a ship or minesweeping equipment. It may be referred to as zone about a ship or sweep disturbed or altered by the presence of the ship or gear relative to magnetic, acoustic, pressure, or other disturbances that may actuate a mine firing mechanism without physical contact between ship and mine or its attachment.
- **information attack.** That division of information warfare involving the manipulation or destruction of an adversary's information or information system combat capability without necessarily changing visibly the physical entity within which it resides; it is considered a form of fires.
- **information management (IM).** The provision of quality information to the right person at the right time in a usable form to facilitate understanding and decision-making.
- **information warfare commander (IWC).** Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for information warfare and granted the tactical control authority to accomplish the assigned missions and tasks.
- **infrared intelligence (IRINT).** Intelligence derived from information collected by infrared sensors.
- **infrared signature.** The infrared signature is determined by the sum of all heat sources (mechanical, electrical, and solar), such as engine exhaust, gear boxes, reflection from windows and wind screens, reflective paint, and lights.
- **infrasonic sound.** Sound below the range of human hearing (below approximately 20 Hz).
- **inherently dangerous.** An activity or task containing a danger to life or limb that is a permanent and inseparable element of the activity. This term and its definition are applicable only in the context of this publication and should not be referenced outside this publication.
- **initial point.** In mine warfare operations, a preselected point on the surface of the Earth that is used as a reference. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **initial salvo error.** A term used in conventional gunnery to indicate the distance and direction from target to the mean point of impact of the initial salvo.
- **initial threat.** In mine warfare, the probability that the first ship to attempt to transit a minefield will be damaged to a specified level.

2-37 AUG 2006

- **insertion.** Placement of observation posts, patrols, or raiding parties by helicopter, parachute, watercraft, or other means. Stealth is normally desired in the execution of an insertion.
- **inshore area.** The water area adjacent to a land mass in which the proximity and contour of the bottom or the nearby coastline influences and limits the effectiveness of deep-water assets and systems. This area normally extends seaward to a fixed distance established by the area commander as necessary to protect assets located in ports, harbors, approaches, amphibious objective areas, choke points, straits, and roadsteads from surface and subsurface threats. Also see "defensive sea area" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **inshore boat unit (IBU).** A deployable, armed, small craft unit (two boats) that provides small craft security support for naval coastal warfare (NCW) operations in the NCW area.
- **inshore operations.** Operations in sea areas in which geographic and hydrographic conditions impose restrictions on the movement of shipping and/or submarines.
- **inshore undersea warfare (IUW).** Operations conducted with the objective of denying the enemy the effective use of the inshore area.
- **inshore waters.** The inner parts of confined waters including navigable estuaries and harbors.
- **insonify.** To project sound energy into any part of the sea.
- **integrated operations.** Operations under which a designated unit is attached to a specific task force/group under tactical command (TACOM) and tactical control of the officer in tactical command (OTC) of the specified task torce/group. Upon receiving TACOM, the OTC assumes the responsibility for all operations and safety of the assigned unit. Operational control remains with the assigning authority.
- **integrated search plans.** In ASW operations, search plans used in coordinated ship/helicopter operations. They are primarily designed either to extend the search attack unit (SAU) search line or to augment the SAU in gaining or regaining contact.
- **integrated strike.** A simultaneous attack by TLAM and TACAIR in which ordnance impact time can be critical to the successful completion of the strike. Integrated strikes strive for a synergistic effect between TLAM and TACAIR.
- **intelligence center.** In air reconnaissance, the ground or ship-based intelligence system where photographic and electronic intelligence is processed, evaluated, and stored or forwarded to using agents or agencies, consistent with the tactical situation.
- **intensity (sound).** In underwater acoustics, 1. The amount of sound energy per second crossing a unit area. 2. The square of the sound pressure level divided by the impedance of the water (a measure of sound power per unit area).
- **intercept.** 1. To detect and identify enemy aircraft beyond visual range by day methods or by all-weather and night methods. 2. To detect and identify distant electronic signals.
- **intercept guard.** The frequency range that a designated unit is assigned to monitor and to report all intercepted enemy or unidentified signals within that frequency range to the controlling ship.
- **interference.** Any electromagnetic disturbance that interrupts, obstructs, or otherwise degrades or limits the effective performance of electronics or electrical equipment.
- **intermediate support base (ISB).** In riverine and coastal operations, a facility that is capable of providing major maintenance on craft (overhaul is not included). It usually supports one or more small support bases.

- **intermediate water depth mine (IWDM).** A weapon system targeted against both high and low speed surface and subsurface targets in the gaps between shallow-bottom and deep-moored mines.
- **internal wave.** A wave that occurs in the ocean medium either at a surface of density discontinuity (as in fronts) or at the boundary between the mixed layer and the thermocline.
- **intersection.** In photogrammetry, the process in which the light rays through the image points and exposure stations of each geodetically controlled image of a stereopair are crossed to determine the desired ground point coordinate.
- **inter-service support agreement (ISSA).** A formal, legal, and binding funding document that specifies actions and responsibilities to be performed by the service provider and the receiver. Also see "inter-Service, intragovernmental agreements," and "inter-Service support" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **intervalometer.** An electrical device used in releasing/firing weapons at a constant predetermined time interval between releases.
- **intrusion.** The intentional insertion of electromagnetic energy into transmission paths in any manner with the objective of deceiving the operators or of causing confusion. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **isohaline.** A line or surface drawn on a map or chart to indicate connecting points of equal salinity.
- **isospeed.** In underwater acoustics, values of sound speed are the same in all parts of a given water column; there is no change in sound speed with depth.
- **isothermal.** In underwater acoustics, temperature is equal or constant with respect to space or time; there is no increase or decrease in temperature with depth.
- **isotropic.** Having the same physical properties in all directions.
- **isovelocity.** See isospeed.
- **jam-to-signal ratio.** The ratio of the effective jamming signal power in the victim electronic system bandwidth to the desired signal power.
- **j-blade propeller.** A propeller designed to reduce cavitation. The name is derived from its resemblance to the letter J.
- **jettison.** Discarding a weapon from a delivery vehicle when normal operation is not intended. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **jink.** An unpredictable maneuver (usually changing both direction and altitude) conducted by an aircraft to evade hostile weapon engagement parameters.
- **jinking.** Random changes in heading, altitude, and "g" acceleration in order to present a continuously changing flight path.
- **jitter.** Small, rapid, perhaps random, fluctuations about an intended or average value.
- **joint action area (JTAA).** A waterspace management area in which a single friendly submarine is operating in coordination with air and/or surface forces. Air and surface ASW attacks are prohibited throughout the JTAA unless a NOTACK area or a submarine-generated search area has been established.

2-39 AUG 2006

- **kite.** In naval mine warfare, a towed planing device that causes the inboard lateral end of the sweep to assume a determined depth. Also known as a depressor in mechanical sweeping. See DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **knowledge superiority.** The ability to achieve a real-time, shared understanding of the battlespace at all levels through a network that provides the rapid accumulation of all the information that is needed and the dissemination of that information to the commander as the knowledge is needed to make a timely and informed decision inside any potential adversary's sensor and engagement time line.
- **knuckle.** Wake turbulence having great persistence caused by a tight turn of a surface ship or submarine. Frequently misinterpreted as the target by the sonar operator.
- **ladder.** A succession of salvos fired with known and predetermined changes between successive salvos to ensure early establishment of a hitting gun range and deflection in surface fire, to serve as a yardstick for covering an area target, or to increase pattern size.
- landfall. In TLAM operations, the point at which the missile crosses the coastline and begins overland flight.
- **landing ship areas.** Areas assigned to landing ships prior to or after carrying out such operations as causeway launching, amphibious vehicle launching, or beaching.
- **lateral coverage.** In air reconnaissance operations, the ground distance represented by and included in an aerial photograph as measured on a line perpendicular to the line of flight.
- **lateral range.** The minimum distance (at closest approach) between target and observer. When the target is at rest, lateral range is the perpendicular distance between the target and the observer's track.
- **lateral separation.** The distance between the tracks of adjacent ships in a formation, particularly during multi-ship sweep endeavors, measured at right angles to the sweep track.
- **launch area.** In TLAM operations, the area for which a launch area coordinator is responsible and which may include the waterspace used by the assigned firing units and the surrounding airspace. The size of a launch area is determined by the firing dispositions of launch and support units, the organic sensors and C2 capabilities, required maneuvering room, other friendly operations, threats to the strike force, and neutral activity.
- **launch area coordinator (LAC).** The Tomahawk strike coordinator's (TSC) principal deputy, responsible for leading the TLAM launch platforms through execution of the TLAM strike. Coordinates on-scene requirements and makes consolidated reports to the TSC.
- **launch basket.** The area from which TLAM may be launched to execute a mission. The launch basket is largely a function of uncommitted fuel onboard the missile and the waypoint turn restraint at the first preplanned waypoint. The size and orientation of the launch basket vary with each mission, overwater points entered, and may also be affected by the employment of time-on-target capability. For precision strike Tomahawk missions, the launch basket reflects the fuel needed to fly the longest possible route, whether to the target or to a divert area.
- **launch window.** A time interval that defines the period in which a surface ship weapons control system intends to launch a TLAM on a particular engagement plan. The launch window is calculated from launch time earliest until some operator-entered launch time latest, which may be as late as 238 minutes after the launch time calculated for the plan.
- law enforcement detachment (LEDET). A detachment designated to enforce international maritime law.
- **law enforcement unit.** A Coast Guard cutter, Navy ship, or boat from either service involved in counterdrug, alien migrant interdiction operations, or other law enforcement activity.

- **layer depth.** The depth of the lower edge of the surface layer, that is, the top of the thermocline. Also may be the depth of maximum sound speed near the surface. See DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **layer effect.** When sound passes through a layer in which little or no bending of the ray path occurs and then passes into a layer with a strong negative gradient (causing sharp downward bending of the ray), increased spreading occurs with a consequent loss of sound intensity.
- **leadthrough operations.** Mine warfare operations intended to assist traffic in the transit of portions of a mined area previously subjected to an MCM effort.
- **letter of instruction (LOI).** Used in the higher echelons of military service to convey broad aims and strategic plans or general policy guidance of an operational nature not suited for promulgation in an operation plan or order. It has the same authority as an operation plan or order.
- **L-hour.** In amphibious operations, the time at which the first helicopter of the helicopter-borne assault wave touches down in the landing zone. Also see "times" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **light level.** Light level is the ambient light produced by natural sources of sky light combined with any moonlight. Illumination is normally expressed in lux. Light level is categorized as follows: a) low light level: illuminance below 0.0022 lux. b) high light level: illuminance equal to or above 0.0022 lux.
- **limited range intercept (LRI).** Communication technique for reducing high frequency communications interception probability.
- **limiting depth.** In underwater acoustics, the depth below the deep sound channel axis where the sound speed equals the maximum near-surface sound speed.
- **limiting ray.** In underwater acoustics, the sound ray that becomes tangent at the depth where the sound speed is at maximum; it delimits the outer boundary of direct (before reflection) sound rays.
- **limpet.** A sea route, other than an approach, coastal, or transit route, that connects two or more routes.
- **line abreast.** A line in which ships form directly abeam of the line guide.
- **line guide.** When ships are formed in a multiple line formation, the line guide is the ship occupying the station in her own line that corresponds to that of the guide in the guide's line or, within any line in which no ship occupies the corresponding station, the ship designated by the officer in tactical command.
- **line of bearing.** A line in which ships form in a straight line on a line guide in any direction except ahead, astern, or abeam.
- **link route.** A sea route, other than an approach, coastal, or transit route, that connects two or more routes.
- **lithometeor.** Atmospheric phenomenon that affects the state of the atmosphere. It constitutes dry particles that hang suspended in the atmosphere, such as dust, smoke, sand, and haze.
- **littoral.** In military operations, a coastal region consisting of the seaward area from the open ocean to the shore that must be controlled to support operations ashore, and the landward area inland from the shore that can be supported and defended directly from the sea.
- **live period.** In multilook mines, the maximum time interval after the first look during which additional looks will be accepted to satisfy all of the subsequent looks and mine logic to cause an actuation.

2-41 AUG 2006

- **live shipment.** Relative to Military Sealift Command, support of amphibious operations, vehicles with gasoline in their tanks (usually three/fourths full) and battery cables connected.
- **localization.** The process of reducing the general area of a contact to an approximate geographic area or fixed position.
- **logistic support base (LSB).** In riverine and coastal operations, a major support and craft overhaul facility. An LSB normally supports two or more intermediate support bases.
- **logistics force.** A naval task organization that performs missions for the logistic support of operations.
- **logistics group.** A major naval administration and/or tactical organization, consisting of the commander and the staff, designed to exercise operational control and administrative command of assigned squadrons and units in executing their tasks of providing logistic support of fleet operations.
- **look zone.** The area outside the screen in which a submarine may come shallow to use sonar, periscope, or radar to acquire accurate target or screen information before commencing screen penetration.
- **loose control.** A form of aircraft mission control in which the aircraft commander selects his own speed, altitude, heading, and the appropriate tactics to accomplish the assigned task. The controlling unit will advise the aircraft of the current tactical picture and will provide further advice if and when available. See also broadcast control and close control.
- **loose line abreast.** A formation in which ships stay within 15° of the guide or ship indicated relative to the base course.
- **loose line of bearing.** A line of bearing assumed on the basis of either a true or relative line of bearing in which ships stay within 15° of the bearing or its reciprocal.
- **loose line of column.** An approximate line of bearing within 15° of column in which distance may be increased to reduce yawing.
- **low-probability intercept equipment.** An intercept receiver that employs directional antennas and/or variable frequency and that will not detect a transmission unless frequency, direction, and polarization are in correct coincidence with the victim at the instant of transmission.
- **luminance.** The amount of light per unit area reflected from or emitted by a surface. Although this measurement is frequently called brightness, strictly speaking, brightness is influenced by contrast, adaptation, and other factors besides the physical energy in the stimulus.
- **magnetic anomaly detection (MAD).** The detection of magnetic materials through the distortions they produce in the normal magnetic field of the earth.
- **magnetic self-protection.** The protection of ships and submarines by degaussing to reduce the magnetic signatures and to minimize the possibility of magnetic mine actuation.
- **magnetic signature.** The characteristic pattern of magnetic fields produced by a ship as it moves through the Earth's magnetic field.
- **magnetic silencing.** The reduction of the magnetic signature of a ship through the use of construction materials as well as techniques, degaussing, and the control of magnetic equipment.
- **main body.** The principal units and ships of a formation that are being screened.

- **main effort.** The friendly unit or group (controlled by a single designated commander) that constitutes the principle means to accomplish an objective.
- **main thermocline.** The layer of water between the surface layer and the deep layer; it is characterized by a negative sound speed gradient. Also known as the permanent thermocline.
- **maneuver warfare.** A philosophy that seeks to collapse the enemy's cohesion and effectiveness through a series of rapid, violent, and unexpected actions that create a turbulent and rapidly deteriorating situation, with which the enemy cannot cope.
- **maneuvering interval.** When similar ships are formed in a multiple line formation, maneuvering interval is the sum of the standard distances in the longest line, plus one standard distance; with dissimilar ships, it is the sum of the standard distances in the longest line, plus the longest standard distance in any line, including the only ship in a line if the standard distance for that ship is larger than that of any other ship present.
- **marginal ice zone (MIZ).** The transition region between the solid ice pack and the open seas in polar regions. The MIZ is a region of high ambient noise across a wide frequency spectrum. It consists of those Arctic and sub-Arctic waters that are ice-covered in winter and open in summer.
- **marginal sea-ice zone.** 1. General description for large geographic areas: Those arctic and subarctic waters that are ice covered in winter and open in summer. 2. Operational description for the vicinity of an ice edge: The fringe area from the region of first encounter with sea ice to the region that is continuously covered with sea ice (where the vertical sound speed profile is usually stable).
- **marine mammal system (MMS).** The employment of marine mammals by explosive ordnance disposal forces in locating, marking, and recovering underwater objects, and in conducting mine countermeasures and other special operations.
- **maritime interception operations (MIO).** Enforcement, through query and visit of merchant shipping (including armed boarding parties), of economic or military sanctions established by a sanctioning body, such as the United Nations, to prevent entry/exit of contraband into/from a designated country or exclusion zone.
- maritime interception operations commander (MIOC). Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for maritime interception operations and granted the tactical control authority to accomplish the assigned missions and tasks.
- **maritime prepositioning force (MPF).** A task organization of units under one commander formed for the purpose of introducing a Marine air-ground task force (MAGTF) and its associated equipment and supplies into a secure area. The MPF is composed of a command element, a maritime prepositioning ships squadron, a MAGTF, and a Navy support element.
- maritime prepositioning force independent operation (MPFIO). A maritime prepositioning force operation that does not augment an existing operation.
- **maritime special operations.** Special operations conducted in a maritime environment: on, under, and from the sea, rivers, or other waterways, including those land targets that are best approached from the water.
- **marker.** In naval operations, a maritime unit that maintains an immediate offensive or obstructive capability against a specified target. Also see shadower, shadowing.
- **masking.** In underwater acustics, a term used to describe those instances where the signature of a target of interest is obscured by broadband noise or by another discrete frequency.

2-43 AUG 2006

- **master mission library (MML).** In TLAM operations, the compilation of commander-in-chief approved missions maintained by the two cruise missile support activities; the library of all missions resident on the mission distribution system.
- **material conditions.** The progressive steps through which ships attain the battle condition to provide maximum practicable watertight, firetight, and fumetight integrity. All combatant ships are three-condition ships: XRAY, YOKE, and ZEBRA (the latter being the battle condition).
- **maximum sonar speed.** The maximum speed at which an individual ship can proceed without unacceptably degrading its sonar performance.
- **maximum speed.** The highest speed at which a ship is capable of proceeding when using full power.
- **maximum towing speed.** In mine warfare, the speed through the water that may not be exceeded without causing damage to the mine countermeasures gear or the towing vehicle.
- **MCM level (M).** In mine warfare, the average number of times that a representative mine is exposed to a mine countermeasures system.
- **meaconing, intrusion, jamming, and interference (MIJI).** A program that identifies and provides a means to counter foreign electronic warfare efforts to probe, harass, deceive, and deny friendly use of communications and electromagnetic resources.
- **mean detection range (MDR).** In underwater acoustics, the range at which there is a 50-percent chance of detecting a particular target with a particular figure-of-merit and propagation-loss profile.
- **mean sea level (MSL).** The average height of the surface of the sea for all stages of the tide, used as a reference surface for elevations.
- **mechanical sweeping.** The countering of mines by physically contacting the mine cases or by severing the mooring cables. Also see "mechanical sweep" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **median detection range (MDR).** In underwater acoustics, the range at which there is a 50-percent chance of detecting a particular target with a particular figure-of-merit (FOM) and propagation-loss (PL) profile. It is the range where the FOM line first intersects the PL curve.
- **medical regulating control center (MRCC).** The coordination center for movement of casualties within and out of a naval task force. Normally located with the flagship, the MRCC is supervised by the medical regulating control officer.
- **memorandum of agreement (MOA).** A document that clarifies specific actions and responsibilities, concerning an event or process, between two or more activities.
- **memorandum of understanding (MOU).** A document that specifies actions and responsibilities to be performed by the provider and receiver but only in general terms. Where applicable, an MOU should be backed by an inter-Service support agreement.
- **military situation.** A situation involving any action by a foreign military or subversive force that intentionally poses a clear and present danger to the security of the United States or any of its forces, territories, or possessions. The hostile forces must use, have used, or threaten to use deadly force.
- **military standard (MIL-STD).** A prescribed engineering method or related practice that, when referenced in a contract, becomes a mandatory procedure for suppliers to follow in furnishing material to the military. An example is MILSTD-100 (Engineering Drawing Practices).

- **mine actuation level (MAL).** The change in magnitude of the field, rate of change of field, etc., required to actuate a mine.
- **mine countermeasures (MCM).** In naval mine warfare, the means that include all offensive and defensive measures for countering a mine threat, whether it be the prevention of enemy mine laying activity, ship self-protection, or locating and neutralizing mines. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **mine countermeasures objectives.** Four specific types of mine countermeasures (MCM) objectives have been identified that respond to the different needs/requirements of the MCM force: exploratory/reconnaissance, breakthrough, attrition, and clearing.
- mine danger area (MDA). An area, varying in size, circumscribing the position of each discovered mine for an initial minefield estimate.
- **mine exploitation.** The process of recovering, rendering safe, and analyzing the mine, its sensors, and system to determine the mine countermeasures necessary to sweep or hunt mines. This technique uses explosive ordnance disposal personnel to render-safe, recover, and field-evaluate a mine.
- **mine locating.** The procedure that detects, accurately locates, and/or identifies mines after they have been laid. It includes techniques that reveal the presence of mines without disturbing them.
- **mine neutralization.** An action using external means to render a mine incapable of detonating on the passage of a target, although it may remain dangerous to handle.
- **mine sensitivity.** A measure of the threshold level at which a mine's sensors and firing logic will respond to target influence signals, as determined by the variable settings available on the mine.
- **mine sweeping.** The technique of searching for or clearing mines that physically removes or destroys the mine, or produces the influence fields necessary to actuate it. Also see "minesweeping" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **mine warfare commander (MIWC).** Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for mine warfare and granted the tactical control authority to accomplish the assigned missions and tasks.
- **mine warfare pilot (MWP).** A comprehensive collection of environmental and geographic data as well as mine and mine countermeasures environmental characteristics for a specific area.
- **minefield activation.** An occurrence wherein the first mine of the field becomes armed.
- **minefield category.** A classification of the minefield as offensive, defensive, or protective.
- **minefield clearance.** An operation designed to remove all mines from an area.
- **minefield length.** That dimension of a minefield segment parallel to the anticipated target track. The transit distance through the minefield.
- **minefield threat.** The probability of a vessel detonating at least one mine on each pass through the field.
- **minefield width.** That dimension of the minefield segment that is perpendicular to the anticipated target track. The width is across the front of the minefield.
- **minelaying.** Placement of naval mines (air, surface, and subsurface launched) to achieve a planned tactical/logistic advantage over specific ocean, harbor, lake, or river areas and associated waterborne traffic.

2-45 AUG 2006

- **minimum mine spacing.** Minimum mine spacing refers to the least distance the weapons must be separated in order to prevent failure or sympathetic detonation.
- **minimum towing speed.** In mine warfare, the slowest speed through the water at which it is possible to proceed with mine countermeasures gear streamed and still counter mines.
- **mining.** One of two distinct subdivisions of mine warfare, mining embraces all methods whereby naval mines are used to inflict damage on adversary shipping to hinder, disrupt, and deny adversary sea operations.
- **mission.** The data elements that are assembled by the weapon control system to program a TLAM to attack a specific aim point. Mission data includes the aim point, warhead fuzing, allowable missile variants/subvariants, terminal maneuver, navigational information, flightpath and in-flight commands, and the launch basket.
- **mission abort damage.** In mine warfare, that level of damage necessary to prevent a target vessel from completing the mission it was assigned. A mission abort would not be repairable at sea but may not be so severe as to cause immediate sinking or destruction.
- **mission analysis.** In TLAM operations, the TLAM planning system process that estimates specific mission performance parameters. These estimates are made using the navigation, clobber, defense systems, and performance analyses modules.
- **mission data update (MDU).** In TLAM operations, the process of electronically transmitting new mission data from a mission distribution system (MDS) to units that have already received their mission data transport devices or MDS tapes.
- **mission distribution system (MDS).** In TLAM operations, a computer system and application software supported by the Cruise Missile Program Office to distribute TLAM missions created by the TLAM planning system. MDS is used to plan TLAM strikes or to transmit or relay MDUs. It also functions as a data base and Tomahawk inventory/accountability management tool.
- **mission load allowance.** List of ordnance required to be carried in support of the ship's mission, excluding the ship's own armament. Mission load allowance is generally applicable to aircraft carriers, maritime prepositioning ships, amphibious warfare ships, destroyers, and submarine tenders.
- **mixed layer.** The upper layer of the ocean that has been mixed by wave action, thus having the same temperature. Also see mixed layer depth.
- mixed layer depth (MLD). The point of maximum near-surface temperature.
- **mobilization planning.** The process of preparing for war or other emergencies by which the armed forces, or part of them, are brought to a state of readiness for war or other national emergency by assembling and organizing reserve personnel, supplies, and material for active military service.
- **monopulse radar.** A simultaneous lobing radar that measures both azimuth and elevation directions of a target on the basis of a single pulse and measures range in the conventional fashion.
- **monostatic.** In underwater acoustics, refers to the case in active sonar where the active source and the receiving hydrophone are co-located. Also see bistatic and multistatic.
- **multipath propagation.** In underwater acoustics, the process or condition in which sound travels between two points in the ocean (especially source and receiver) via more than one path, generally considered detrimental to sonar operations.
- **multiplex (MUX).** The technique of combining two or more independent communication channels. Also see "multiplexer" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

- **multistatic.** Refers to the case in active sonar where there is an active source and multiple receivers, some of which are separated from the source. Also see bistatic and monostatic.
- **narrowband.** In underwater acoustics, signals that have their energy in a small or narrow frequency band. Bands smaller than one percent of the center frequency are considered narrow. Narrowband also refers to signal processing equipment that processes bands smaller than one percent.
- **NATO Standardization Agreement.** The record of an agreement among several or all of the member nations to adopt like or similar military equipment, ammunition, supplies, and stores; and operational, logistic, and administrative procedures. National acceptance of a NATO allied publication issued by the Military Agency for Standardization may be recorded as a standardization agreement.
- **naval air training and operating procedures standardization (NATOPS).** An organization and system designed to determine, promulgate, and monitor standard flight doctrine and optimum operating procedures for naval aircraft.
- **naval campaign.** An operation or a connected series of operations conducted essentially by naval forces, including all surface, subsurface, air, and amphibious troops, for the purpose of gaining, extending, or maintaining control of the sea.
- **naval component commander (NCC).** The service component commander responsible for Navy forces assigned to a joint operation. See "Service component commander" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **naval cooperation and guidance for shipping (NCAGS).** The provision of military cooperation, guidance, advice, assistance, and supervision to merchant shipping to enhance the safety of participating merchant ships and to support military operations.
- **naval cryptology.** Action taken to exploit and attack foreign communications and other electromagnetic signals, while protecting own, for the purposes of command and control warfare, electronic warfare, signals intelligence, and signals security. Also see "cryptology" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **naval fleet auxiliary force.** Ships provided by Military Sealift Command and dedicated to fleet operations support.
- **naval special warfare (NSW).** A designated naval warfare specialty that conducts operations generally accepted as being unconventional in nature and, in many cases, covert or clandestine in character. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **naval strategy.** The use of naval forces (including naval aviation and Marine forces) to achieve naval objectives determined by national strategy, with the overall objective of controlling the seas and denying to an enemy the use of those sea areas important to enemy operations.
- **naval vessel protection zone.** A 500-yard regulated area of water surrounding large U.S. naval vessels that is necessary to provide for their safety or security.
- **naval warfare.** The employment in combat of all naval forces to establish, maintain, and exploit control of the seas and to deny their use to an enemy. Naval warfare consists of a series of naval operations or campaigns.
- **navigation countermeasures (NAVCM).** The detection and evaluation of enemy electronic aids to navigation and the use of jamming and deception to interfere with enemy use of such aids.
- **negative gradient.** A water condition in which the temperature decreases with increases in depth.

2-47 AUG 2006

- **neutralization radius.** In mine warfare, the greatest horizontal distance from an exploding charge of specified use at which a mine will be neutralized.
- **noise level (NL or LN).** In underwater acoustics, the acoustic intensity of the total noise background (ambient and self-noise) at the location of the receiving sensor.
- **noise-limited.** That situation in which the maximum range of detection is limited by that part of background noise and own-ship noise that is detected by the sonar.
- **nominal ocular hazard distance.** The distance along the axis of the unobstructed beam from the laser to the human eye beyond which the irradiance or radiant exposure during normal operation is not expected to exceed the appropriate maximum permissable exposure.
- **noncombat expenditure allocation (NCEA).** The total of all Navy and Marine Corps aviation nonnuclear ordnance items authorized for expenditure for training, testing, operations, and other peacetime uses.
- **noncompliant boarding.** In maritime interception operations, boarding in which there is no intelligence to indicate a threat and any or all of the following conditions are met: a) suspect vessel fails to comply with directions of the on-scene commander, b) passive measures in place are intended to delay, impede, complicate, and/or deter boarding of the suspect vessel and can be overcome by mechanical means, and/or c) passive resistance measures in place are intended only to delay, impede, complicate, and/or deter search and seizure of suspect vessel and can be overcome by mechanical means.
- **nonlethal technology (NLT).** Synonymous with nonlethal weapons but also encompassing more advanced technology that is not yet available for use by military forces.
- **nonmine mine-like bottom object.** In mine warfare, an object, such as an outcropping, coral reef, or manmade debris, that may give a mine-like response on minehunting sonars.
- **nonmine mine-like echo (NOME).** In mine warfare, an echo from within the clutter on minehunting sonars of a nonmine mine-like bottom object.
- **normal speed.** The speed at which ships are to proceed if no signaled speed has been ordered. Also see operational speed, stationing speed.
- **no-strike object.** Objects that are to be protected against impact or damage to some specified level of probability during the weaponeering and targeting process. No-strike objects are identified by Unified Commander or CJTF staffs.
- **not ready for issue (NRFI).** In naval supply, a term applied to items that are not in a condition to satisfy the purpose for which intended because of failure or damage.
- **NOTACK area.** A stationary safe zone established by the submarine for protection against friendly attack while other ASW forces engage submerged contact(s) within a joint action area or submarine generated search area.
- **nuclear material.** Traditionally, uranium or plutonium used to produce a nuclear detonation via the fission or fusion process.
- **oceanic front.** The interface between two water masses having different temperature and/or salinity characteristics. A tactically significant front will have a large effect on sound transmission and propagation loss.
- **offensive mine countermeasures.** Actions taken to prevent an enemy from laying mines, including destruction of mine stockpiles and mining platforms or the placement of mines in friendly waters to thwart the enemy's ability to deliver mines.

- **offensive mining.** Operations in enemy waters designed to deny, disrupt, or destroy their shipping.
- **offload control officer (OCO).** The Navy officer responsible to the Navy support element commander for the offload of the maritime prepositioning ships squadron, the ship-to-shore movement, and the reception and control of lighterage on the beach.
- **offload preparation party (OPP).** A temporary task organization of Navy and Marine maintenance, embarkation, equipment operators, and cargo handling personnel deployed to the maritime prepositioning ship's squadron before or during its transit to the arrival and assembly area to prepare the ship's offload systems and embarked equipment for offload. Also see "off-load preparation party" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **offshore asset.** For the conduct of inshore undersea warfare, a strategic, economic, or military asset located seaward of the highwater mark that is essential to U.S. interests and policies. Also see "offshore assets" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **open-loop sweep.** In mine warfare, a magnetic sweep that uses seawater to complete the circuit.
- **operating mode.** In ASW, a term used in reference to whether a submarine is submerged, snorkeling, or operating on the surface.
- **operating target (OPTAR).** An estimate of the money required by an operating ship, staff, squadron, or other unit to perform the task and function assigned.
- **operating tempo (OPTEMPO).** Level of operations and training over time. Common measurements include fleet hours, track hours, ship steaming days, and rounds of ammunition.
- **operational capability.** Ability to perform a stated operational function. Description of the degree of capability includes: a. identification of a function, b. indication of a degree or level of performance, and c. indication of the probability that such performance would be forthcoming if called for on short notice.
- **operational category.** A classification or grouping of operational functions with specified common characteristics.
- **operational function.** Detailed statement of an action for which a unit is designed, organized, or required to perform in the accomplishment of assigned or designed missions.
- **operational logistics.** The art of applying the military resources available to operating forces to achieve national military objectives in a theater or area of operations or to facilitate the accomplishment of assigned missions in a military region, theater, or campaign. At the operational level of war, logistics involves fundamental decisions concerning force deployment and sustainability functions in terms of identifying military requirements, establishing priorities, and determining allocations necessary to implement the commander's concept.
- **operational profile.** For information operations/information warfare, the collection of friendly indicators (visual, electronic, acoustic) or patterns associated with various naval operations that are observable to an adversary or potential adversary or detectable by adversary or potential adversary systems.
- **operational speed.** The highest speed at which a ship will be required to proceed during a particular operation or during a stated period. Also see normal speed, stationing speed.
- **operational support aircraft (OSA).** DOD-owned or controlled aircraft dedicated primarily on an intratheater basis to provide command transportation support.
- **opposed boarding.** In maritime interception operations, boarding in which any or all of the following conditions are met: a) passive resistance measures in place are clearly intended to inflict harm on the boarding team

2-49 AUG 2006

- or create a dangerous environment, b) intelligence indicates a possible threat onboard the suspect vessel, or the vessel is suspected of carrying terrorist contraband, and/or c) the suspect vessel has demonstrated intent to actively oppose the boarding or intelligence indicates such intent exists.
- **optical density (OD).** A unit of measurement that designates a material's ability to absorb energy. OD required for the same laser source may vary depending on the distance and magnification of the optics that may be in use. Unaided OD is calculated by assuming that the eye is at the laser output, while aided OD is calculated assuming all energy is focused into the 7-mm pupil.
- **optimum MCM speed.** Speed over ground for a given set of conditions that provides the greatest sweeping or hunting rate.
- **optimum sonar speed.** The speed for an individual ship at which, over a period, it can achieve the maximum swept area with its sonar in the prevailing environmental conditions.
- **ordnance logistics management (OLM).** The total of all logistics functions applicable to the life cycle management of the ordnance stockpile and its deployment in support of operating forces. Includes support services provided to holders and users of ordnance assets.
- **otter.** In naval mine warfare, a component of moored minesweeping gear used to laterally divert and maintain proper depth of minesweeping equipment.
- **overpressure charges (OP).** In mine warfare, the use of a predetermined amount of explosives that, when detonated underwater at a known distance from a mine, creates a shock wave sufficient to neutralize it. The shock wave can cause disruption of internal components, including mechanical battery damage, electrical circuit destruction, or sensor failure. Use of an overpressure charge will usually leave an essentially intact mine case.
- **over-the-horizon targeting (OTHT).** The location, evaluation, and reporting/transmission of data for a target outside the active sensor horizon of a missile firing unit by means of a target reporting unit.
- **parallax.** The angle at the target formed by the lines of sight from two different stations. Train or horizontal parallax is measured in the horizontal plane; elevation or vertical parallax in the vertical plane.
- **paravane.** A towed body with planes and a cutter with a means of depth keeping that displaces itself laterally and can be used as a ship protection measure against certain moored mines.
- **participating unit (PU).** In tactical data link (TADIL) operations, a unit communicating directly on TADIL A pool.
- **passive mine countermeasures.** Steps taken to reduce the susceptibility of vessels to mine actuation and explosion to include reduction of magnetic signature (degaussing), acoustic signature (Quiet Ship Bill), and pressure signature (slow transit while in deep water).
- **passive sonar.** 1. A method of detecting and tracking submerged or surface targets by listening to target radiated sound. 2. A sonar system having only a hydrophone and capable of receiving signals but not transmitting them.
- **patrol line.** The designated path of operation for patrolling units joined end-to-end to permit a continuous range of observations. The patrol line may be a straight line, a bent line, or a closed figure of any shape and with any number of sides.
- **pattern minelaying.** The laying of mines in a defined pattern.
- **penetration point.** 1. In mine warfare, a point through or over which the landing forces pierce the high-water

- mark toward inland objectives. 2. In air defense, a control point used for reentry into the friendly air defense network. It should be located beyond the intercept zone of the friendly SAM network.
- **periscope depth.** The maximum depth at which a submarine can use its periscopes when they are fully extended.
- **permissible cargo.** In maritime interception operations, designated exceptions to a prohibited cargo category such as medical supplies, food stuffs, and other humanitarian aid as determined by proper authority.
- **personnel tempo (PERSTEMPO).** Percentage of time in a given annual period that an individual supports operations and training away from his/her barracks, home base, or station for a period of time greater than 24 hours, to include unaccompanied duty assignments and temporary additional duty.
- **phased array radar.** A radar antenna group using multiple radiating elements phase shifted to produce, transmit, and receive scanning patterns.
- **picket.** A unit stationed in a prescribed position with reference to a formation or disposition or in a geographic position for a specific purpose such as air warning.
- **pinger.** An active acoustic transmitter used in exercise mines to aid in location for recovery. Also used as a part of underwater navigation systems.
- **ping-stealing.** A method to measure the range of an emitting sonar source by determining the difference in time between direct acoustic path and bottom reflected path of pings received.
- **planned maintenance system (PMS).** Identifies planned maintenance to be performed on equipment, procedures to be followed, and tools, parts, materials, and test equipment required to perform planned maintenance.
- **platform noise.** In underwater acoustics, a combination of own-ship noise, circuit noise, and cable noise that limits sonar sensitivity.
- **plot lock.** The act of two or more units relating their plots together to eliminate the error between the plots caused by errors in the estimated geographical positions of the unit.
- **point-of-aim correction.** The correction applied to gun range and deflection to compensate for the vertical and horizontal angles between the line of sight to the point of aim and the line from the gun to the desired point of impact.
- **point target.** A target of such small dimension that it requires the accurate placement of ordnance in order to neutralize or destroy it.
- **port.** A place at which ships may discharge or receive their cargoes. It includes any port accessible to ships on the seacoast, navigable rivers, or inland waterways. The term "ports" should not be used in conjunction with air facilities that are designated as aerial ports, airports, etc.
- **port safety.** The safeguarding of vessel, harbors, ports, and waterfront facilities from accidents, negligence, civil disturbance, and disasters.
- **position and intended movement (PIM).** The reference position of the officer in tactical command at a given time and a forecast of the course and speed expected to be made good over the ground. PIM is established to assist the return of aircraft, to aid outlying surface units (pickets) in maintaining their stations, and for rendezvous purposes.
- **positive gradient.** A water condition in which the temperature increases with an increase in depth.

2-51 AUG 2006

- **power projection.** The application of offensive military force against an enemy at a chosen time and place. Maritime power projection may be accomplished by amphibious operations, attack of targets ashore, or support of sea control operations. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/in-dex.html
- **prairie-masker.** A system of belts on a ship's hull (Masker) and holes in the forward and after face of each propeller blade (Prairie) designed to reduce machinery-generated noise that radiates from the ship and interferes with sonar performance.
- **precision engagement.** The ability of joint forces to locate, surveil, discern, and track objectives or targets; select, organize, and use the correct systems; generate desired effects; assess results; and reengage with decisive speed and overwhelming operational tempo as required, throughout the full range of military operations.
- **precursor mine countermeasures operation.** In mine warfare, operations in an area or channel using relatively safe methods and techniques to reduce the risk to mine countermeasures platforms. Also see "precursor sweeping" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **predicted sonar range (PSR).** The ranges calculated and reported by a unit for its own sonar equipment and transducer depths that could be employed under the prevailing environmental and operational conditions on the basis usually of a 50 percent probability of detection.
- **pressure hull.** The inner compartmented hull of a submarine designed to withstand sea pressure at great depths.
- **prevention of mutual interference (PMI).** Measures intended to prevent collision damage to friendly submarines.
- **prevention of stripping equipment (PSE).** In mine warfare, a booby trap within a mine serving as an anti-tamper device that will fire the main battery or an auxiliary charge when an attempt is made to open the mine's chamber or any other component. Also see "antirecovery device" DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html in JP 1-02.
- **primary search and rescue facility.** A specially trained and equipped air, surface, subsurface, or ground element assigned to and maintained in constant readiness for the conduct of SAR operations.
- **principal warfare commander (PWC).** Under the composite warfare commander (CWC) concept and subordinate to the officer in tactical command and CWC are five principal warfare commanders: Air Defense Commander (ADC), Antisubmarine Commander (ASWC), Information Warfare Commander (IWC), Strike Warfare Commander (STWC), and Surface Warfare Commander (SUWC).
- **private voluntary organizations (PVO).** Private, nonprofit humanitarian assistance organizations involved in development and relief activities. Private voluntary organizations are normally United States-based. "Private voluntary organization" is often used synonymously with the term "nongovernmental organizations."
- **probability actuator.** In mine warfare, a counter-countermeasures feature in the mine firing logic designed to allow only a certain probability that a target or countermeasure signal will actuate the mine.
- **probability of detection.** In underwater acoustics, the probability of detecting a given target, based on figure of merit and propagation loss as a function of range. Usually figured for a 50 percent probability of detection.
- **processing grid.** In information warfare, the personnel, systems, and applications that turn information into knowledge to enable decision making. It is closely linked to, and in some cases embedded within, the sensor grid, providing the critical data fusion that generates situational awareness. The processing grid produces and updates the common operational picture of the battlespace.

- **program executive office (PEO).** The office of a military or civilian official who has primary responsibility for directing several acquisition category I programs and for assigned acquisition category II, III, and IV programs.
- **program manager (PM).** 1. A military or civilian official who is responsible for managing an acquisition program. 2. A manager of a function (e.g., ordnance, public safety, security, etc.) in a region.
- **prohibited cargo.** In maritime interception operations, specified cargo destined for import to or export from a country designated by applicable prohibitions or resolutions.
- **propagation loss (PL).** In underwater acoustics, the loss of sound intensity due to spreading and attenuation during travel through a medium on a transmission path. The reduction in signal intensity (in dB) between a point one yard from the sound source and the receiving sensor.
- **propulsion mode.** Term used to describe the power plant configuration of a ship. For example, a ship with a diesel engine connected to the propeller shah via a gear-reduction system is said to operate in the diesel-reduction mode.
- **proud mine.** A ground mine that is not fully buried and thus protrudes from the seabed.
- **prudent limit of endurance.** The time during which an aircraft can remain airborne and still retain a given safety margin of fuel.
- **prudent limit of patrol.** The time at which an aircraft must depart from its operational area in order to return to its base and arrive there with a given safety margin (usually 20 percent) of fuel reserve for bad weather diversions.
- **q-route survey.** The process of searching and mapping all significant contacts along a preplanned shipping route (channel). Also see "Q-route" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **quenching.** The reduction in underwater sound transmission or reception resulting from absorption and scattering of sound.
- **query ship.** In maritime interception operations, the unit making initial contact with and conducting the query of a suspect vessel.
- **radar warning receiver.** An on-board receiver providing information to the aircrew about radar energy striking the aircraft.
- **radiated noise.** In underwater acoustics, the spectrum level of the sound energy radiated by a platform. Machinery and propeller noise dominate, but hydrodynamic noise is also a factor. It is normally expressed as a sound level in dB/1 mPa referenced to a distance of one yard from the source in a 1-Hz bandwidth.
- **radioactive cloud.** An all-inclusive term for the cloud of hot gases, smoke, dust, dirt, and debris from a weapon and the environment.
- **radioactive contamination.** Radioactive material in an undesirable location such as on structures, areas, objects, or personnel.
- **random antiterrorism measures (RAMs).** Random multiple security measures that, when activated, serve to disguise the actual security procedures in effect; RAMs deny the terrorist surveillance team the opportunity to accurately predict security actions.

2-53 AUG 2006

- **random-look mechanism.** In mine warfare, a multi-look mine firing mechanism responding to two or more looks in either direction and in any sequence.
- **rarefaction.** In underwater acoustics, the condition in a sound wave where the pressure is lower than the average pressure exerted by the medium in which the wave propagates.
- **ray path.** In underwater acoustics, a path perpendicular to the acoustic wavefront as the wave travels through the water.
- **ray trace.** A graphical determination of the path followed by a single ray of radiant energy as it travels through media of varying index of refraction.
- **reach back.** The ability to exploit resources, capabilities, expertise, etc., not physically located in the theater or joint operations area when established. Also see "reachback" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **readiness analysis.** The process of determining how changes in resources or environmental conditions can be expected to affect the performance and capabilities of units. Readiness analysis leads to determination of readiness standards, determination of readiness, and determination of resources needed to achieve desired levels of readiness.
- **readiness evaluation.** Description of capabilities possessed in comparison with capabilities required. Readiness may be described in terms of: a) capabilities "possessed" or "nonpossessed" in relation to appropriate readiness standards, b) probability of rendering a specified degree or level of performance, or c) general readiness categories prescribed by the Joint Chiefs of Staff combat readiness reporting system.
- **real-time system.** A system into which data flows and is processed at a rate that corresponds to the rate of change of applicable information.
- **rear area security.** The measures taken before, during, and/or after an enemy airborne attack, sabotage action, infiltration, guerrilla action, and/or initiation of psychological or propaganda warfare to minimize the effects thereof.
- receiving sensitivity (RS). In underwater acoustics, a measure of the conversion factor from sound level in the water to voltage level at the output of the sonar, expressed in units of $dB//1 \mu Pa/volt$.
- **recognition differential (RD).** In underwater acoustics, a particular value of signal-to-noise ratio for a given processor that provides a 50 percent probability of target detection expressed in dB.
- **reconnaissance operation.** In mine warfare, that portion of the exploratory-reconnaissance phase designed to make rapid assessment of the limits and density of a minefield.
- **reconstitution.** Those actions that commanders plan and implement to restore units to a desired level of combat effectiveness commensurate with mission requirements and available resources. Reconstitution operations include regeneration and reorganization.
- **recovery.** In mine warfare, the removal of a mine as nearly intact as possible to permit further investigation for intelligence and/or evaluation purposes. Also see removal and DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **redeployment.** The transfer of a unit, an individual, or supplies deployed in one area to another area, or to another location within the area, or to the zone of interior for the purpose of further employment. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

- **redistribution.** The act of effecting transfer in control, utilization, or location of materiel between units or activities within or among the military services or between the military services and other Federal agencies. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **reference level.** In underwater sound, the standard level to which other sound levels can be related. Three reference levels commonly used are I dyne/cm2 (= 1 μbar), 0.0002 dyne/cm2, and 10-5dyne/cni2(= 1 μPa).
- **reflection loss.** In underwater sound, the component of propagation loss resulting from imperfect reflections at the ocean boundaries.
- **refraction.** In underwater acoustics, the bending or curving of a sound ray that results when the ray passes from a region of one sound speed to a region of a different speed. The amount of ray bending is dependent upon the amount of difference between sound speeds, that is, the variation in temperature, salinity, and pressure of the water.
- **regeneration.** Rebuilding of a unit through large-scale replacement of personnel, equipment, and supplies, including the reestablishment or replacement of essential command and control and the conduct of mission essential training for the newly rebuilt unit. Also see reconstitution and reorganization.
- **regulated navigation area.** A water area within a defined boundary for which regulations for vessels navigating within the area have been established.
- **release criteria.** Criteria laid down by the officer in tactical command or delegated authority to be satisfied before weapon employment is authorized.
- **release delay.** In mine warfare, a device fitted to a moored mine or sinker to delay the rising of the mine case, either for a preset interval or until the influence of a passing target or sweep is received.
- **removal.** In mine warfare, to take a mine out of an area where its detonation would present an unacceptable circumstance.
- **render safe.** As applied to weapons and ammunition, the changing from a state of readiness for initiation to a safe condition.
- **reorganization.** Action taken to shift internal resources within a degraded unit to increase its level of combat effectiveness. Also see reconstitution and regeneration.
- **replenishment.** In mine warfare, replacement or addition of mines to a minefield. Also known as reseeding.
- **required delivery date (RDD).** The Julian calendar date when material is required by the requisitioner. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **requirements.** The inputs to a mission, objective, or capability. They are subdividable into ever smaller and simpler components until they cannot be divided any more without losing meaning.
- **rescue destroyer.** A ship stationed in the vicinity of an aircraft carrier for the purpose of rescuing downed aircraft personnel. It may have the additional function at night of acting as reference ship to indicate the horizon for takeoff and the landing pattern for recovery operations. Formerly referred to as "plane guard."
- **rescue helicopter.** A helicopter stationed in the vicinity of a base, ashore or afloat, and used independently for rescuing downed aircraft personnel.
- **rescue vessel.** Surface craft possessing inherent seagoing qualities, long range, and reasonable speed engaged in a SAR mission.

2-55 AUG 2006

- **reverberation.** In underwater acoustics, the combined sound of many small echoes returned to the hydrophone due to scattering at the ocean surface (surface reverberation) and at the bottom (bottom reverberation), and/or scattering in the water mass (volume reverberation). Examples of sources of reverberation are air bubbles and suspended solid matter.
- **reverberation level (RL).** In underwater sound, the ratio of the acoustic intensity, expressed in dB units, produced by pertinent scatters (volume, sea surface, or bottom) as a function of source level and range.
- **reverberation limited.** In underwater acoustics, the condition in active sonar when the reverberation interference level is higher than the background noise level. In this case, reverberation limited replaces total background noise in the active sonar equation.
- **right of approach and visit.** The right under international law, of a warship, military aircraft, or other duly authorized ship or aircraft to approach any vessel in international waters to verify its nationality. Unless the vessel encountered is itself a warship or government vessel of another nation, it may be stopped, boarded, and the ship's documents examined, provided there is reasonable ground for suspecting that it is: a) engaged in piracy, b) engaged in the slave trade, c) engaged in unauthorized broadcasting, d) without nationality, or e) of the same nationality as the warship though flying a foreign flag or refusing to show its flag.
- **risk management (RM).** The systematic process of identifying, assessing, and controlling risks arising from operational factors and making decisions that weigh risks against mission benefits.
- **riverine patrol.** A patrol by waterborne forces in waters measured from the low-water mark of the extreme reaches of the river mouth to the limit of navigable headwaters.
- **run.** The transit of a mine countermeasures (MCM) platform and MCM gear combination along a track. A run produces a swept path and may cause more than one actuation in a mine. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **safe speed.** In mine warfare, the speed at which a particular ship can proceed without actuating a given influence mine within the damage area at the depth under consideration.
- **salinity (S).** The amount (in grams) of total dissolved salts present in one kilogram of water. This is equivalent to parts per thousand (ppt or ‰).
- **scattering.** In underwater acoustics, the reduction in sound intensity caused by reflection of energy away from the wave propagation path.
- **scattering strength.** In underwater acoustics, the ratio (in dB) of scattered sound from a surface or volume, referred to a distance of one yard, to the incident plane-wave intensity (energy per unit area or volume).
- **screen commander.** An officer appointed by the officer in tactical command to exercise specific tactical control functions relating to the screen.
- **sea combat.** The broad functional integration of ASW and surface warfare disciplines for sea control to the extent and duration necessary for mission fulfillment; other warfare commander and coordinator positions also may be included as desired by the officer in tactical command/composite warfare commander.
- **sea combat commander (SCC).** Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for sea combat and granted the tactical control authority to accomplish the assigned missions and tasks; this is an optional position within the composite warfare commander structure.
- **sea current.** In SAR operations, that current present in the open sea that is caused by factors other than local winds.

- **sea state.** A numerical or written representation of the roughness of the ocean surface.
- **sea state limited.** In underwater acoustics, the condition when sea surface noise is the predominant source of background noise.
- **seaport of debarkation (SPOD).** The port at which cargo or personnel are discharged.
- **seaport of embarkation (SPOE).** The port in a routing scheme from which cargo or personnel depart to a seaport of debarkation. For unit and nonunit requirements, it may not coincide with the origin.
- **search and rescue (SAR) area.** A general term for any geographically defined area of SAR responsibility. Also a term used by the International Civil Aviation Organization (ICAO) to describe its areas of international SAR responsibility. ICAO uses the abbreviation SRR.
- **search and rescue coordinator (SC).** The official (or agency in the case of regions) responsible for the SAR organization within a given area and for the coordination of SAR operations within that area.
- **search and rescue incident.** Any situation that requires notification and alerting of the SAR system and which may require SAR operations.
- **search and rescue region.** A region described in the national SAR plan in which a single Federal agency coordinates all Federal SAR operations. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **search and rescue stage.** One of five stages of an SAR operational problem. a) awareness stage: that stage when the SAR system becomes aware of an incident, b) initial action stage: that stage when preliminary action is taken to alert SAR facilities and obtain amplifying information, c) planning stage: that stage when an effective plan of operations is developed, d) operations stage: that stage when SAR facilities proceed to the scene, conduct search, rescue survivors, assist distressed craft, provide emergency care for survivors needing it, and deliver injured to a suitable medical facility, and e) mission conclusion stage: that stage when SAR facilities return to their regular location and are prepared for another mission.
- **sea-surface noise.** In underwater acoustics, noise caused by the action of surface waves. Sea-surface noise is the predominant source of ambient noise in the open ocean.
- **security zone.** In naval coastal warfare, an area of land, water, or land and water that is so designated by the captain of the port or district commander for such time as is necessary to prevent damage or injury to any vessels or waterfront facility; to safeguard ports, harbors, territories, or waters of the United States; or to secure the observance of the rights and obligations of the United States.
- **seismic mine.** A version of a passive acoustic mine that uses geophonic elements to detect acoustic energy emanating from a ship. A mine that responds to the acoustic energy transmitted through the ocean bottom rather than through the water.
- **seizure.** The taking into custody of a vessel, evidentiary items, and/or contraband.
- **self-noise.** In underwater acoustics, any noise resulting from the presence or movement of own-ship, including flow, mechanical, electrical, and electronic noises. It may enter the own-ship listening gear directly or by an airborne, waterborne, or structuralborne path. Also see acoustic noise, ambient noise, background noise.
- **self-noise limited.** In underwater acoustics, the condition when self-noise is the predominant source of background noise. This occurs when a ship or submarine is traveling faster than its breakpoint speed.

2-57 AUG 2006

- **self-protective mine countermeasures (SPMCM).** Tactical active and passive countermeasures taken by a ship to reduce the levels of its emitted influence signatures. Examples are slow speed and use of degaussing systems.
- **sensitive mine.** A mine whose detecting circuit requires a relatively small magnitude of influence (as from a slow, small, quiet, and degaussed vessel) to actuate it.
- **sensitivity.** 1. In underwater acoustics, the measure of how well a device converts sound level to voltage level. Measured in dB/μPa/volt. 2. In mine warfare, a classification of a mine's likelihood to actuate by an influence field; the higher the sensitivity, the smaller the magnitude of the influence required. It is a qualitative term and, if a measurement is to be included, the specific term "actuation level" should be included.
- **sensor grid.** In information warfare, the air, sea, ground, space, and cyberspace sensors, weapons sensors, sensors employed by individual sailors and marines, and embedded logistics sensors that collect information.
- **service force.** A naval task organization that performs missions for the logistic support of operations.
- **set**. The direction toward which a current flows or the direction toward which an object moves under the influence of wind or current. Also see drift.
- **shadower.** A maritime unit observing and (not necessarily continuously) maintaining contact with an object; shadowing may be conducted overtly or covertly. Also see marker, shadowing.
- **shadowing.** The observation of an enemy unit of force, usually as a sequel to surveillance or reconnaissance, for the purpose of reporting its composition, location, movement, and any other relevant information. Also see marker.
- **shadow zone.** In underwater acoustics, a region in which very little sound energy penetrates, depending upon the strength of the lower boundary of the surface duct. It is usually bounded by the lower boundary of the surface duct and the limiting ray. There are two shadow zones: the sea surface, beneath which a shadow is cast by the surface in the sound field of a shallow source, and the deep-sea bottom, which produces a shadow zone in the upward-refracting water above it.
- **shallow water.** 1. For underwater acoustics, normally considered as being less than 100 fathoms. Usually considered to be water of such depth that bottom topography affects surface waves. Only refers to the vertical extent from the ocean/atmosphere interface to the bottom of the ocean. Acoustically defined as water depth that will not support convergence zone or deep sound propagation paths. 2. For the conduct of inshore undersea warfare, the water mass extending from the mean high-water mark ashore to the 100-fathom curve seaward.
- **shelf break.** The line across which there is a marked increase of slope at the outer margin of a continental shelf.
- **shipping risk area (SRA).** A geographically defined portion of the naval cooperation and guidance for shipping (NCAGS) area where an elevated risk to merchant shipping exists. Risks can include potentially hostile acts, navigational restrictions that require closer management of shipping traffic, or naval force operations that may conflict with routine safe passage. More than one SRA can be established within an NCAGS area. SRAs are established by the task force commander.
- **short-term operation.** In mine warfare, sweeping or hunting carried out when the time available before ships pass through a mined area is insufficient to execute clearance.
- **signaled course.** The true course that is being or that is to be steered.
- **signaled speed.** The speed in knots at which the guide has been ordered to proceed.

- **signal excess (SE).** In underwater acoustics, the difference in dB between received signal-to-noise ratio and recognition differential. This is equivalent to the received signal level in dB in excess of that required for a 50-percent probability of detection.
- **signal-to-noise ratio.** In underwater acoustics, the difference in decibels between the received signal and the received noise. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **signature.** A set of characteristics of a weapons system or platform useful for its detection, characterization, tracking, and engagement. These characteristics are generally considered to involve radar cross section, infrared (IR) emissions, acoustic emissions, avionic subsystem emissions, visible and IR reflectivity and, in mine warfare, pressure and magnetic influences.
- **single-ping, 50-percent probability-of-detection range.** In underwater acoustics, that range at which the signal excess becomes zero. The median detection range and the inner- and outer-range rings of the bottom-bounce annulus and convergence-zone annulus are each determined by this probability-of-detection criterion.
- **situational awareness (SA).** Knowledge and understanding of the current situation that promotes timely, relevant, and accurate assessment of friendly, enemy, and other operations within the battlespace in order to facilitate decision making. An informational perspective and skill.
- **skip bombing.** A method of aerial bombing in which a bomb is released from such a low altitude that it slides or glances along the surface of the water or ground and strikes the target at or above water level or ground level.
- **skip-track sequence.** In mine sweeping, a run sequence where distance between tracks swept is in multiples of normal track spacing. One run is made on each track, and then the tracks are repeated in the same order until all required runs per track have been accomplished.
- **slope enhancement.** In underwater acoustics, a phenomenon where the intensity of a sound transmission is altered as it encounters changing bottom slopes.
- **Snell's Law.** When a wave (light or sound) travels obliquely from one medium to another, the ratio of the sine of the angle of incidence to the sine of the angle of refraction is the same as the ratio of the respective wave speeds in the mediums and is a constant for two particular media.
- **snorkel.** An extensible breather pipe that enables a submarine to operate on diesel engines while remaining submerged.
- **SOFAR channel.** In underwater acoustics, the deep sound channel with its axis at the bottom of the main thermocline. The name originates from the WWII sound fixing and ranging (SOFAR) system designed for locating aviators downed at sea.
- **sonar background noise.** In underwater acoustics, the total noise that interferes with signal reception.
- **sonar signal differential.** In underwater acoustics, the signal-to-noise ratio (with noise measured in the system bandwidth) required for a 50 percent Pd.
- **sonic layer depth (SLD).** The depth of maximum near-surface sound speed above the deep sound channel.
- **sound channel.** In underwater acoustics, that region in the water column where the sound speed first decreases to a minimum value with depth and then increases in value, due to pressure. Above the depth of minimum value, sound rays are bent downward; below the depth of minimum value, rays are bent upward, resulting in the rays being trapped in this channel and permitting their detection at great ranges from the sound source.

2-59 AUG 2006

- **sound channel axis.** The depth of minimum sound speed within a sound channel. Abbreviated as DSCA for the deep sound channel axis or SSCA for the secondary sound channel axis.
- **sound intensity.** In underwater acoustics, a value equal to the square of the sound pressure divided by the impedance of the water.
- **sound pressure level (SPL).** In underwater acoustics, an indirect measurement of sound pressure based on a logarithmic relationship. A range of one million sound pressures is represented by 120 units of sound pressure level. The unit of measurement is the decibel.
- **sound speed.** In underwater acoustics, the rate of travel at which sound energy moves through a medium, usually expressed in feet per second or meters per second.
- **sound speed excess (SSE).** In underwater acoustics, the difference between the sound speed at the ocean bottom and at the bottom of the surface layer.
- **sound speed gradient.** In underwater acoustics, the rate of change of sound speed with depth in the ocean.
- **sound speed profile (SSP).** In underwater acoustics, a graph of the variation of sound speed with water depth.
- **sound velocity profile (SVP).** In underwater acoustics, a graph of the variation of sound speed versus depth of the ocean, taking into account the vertical distribution of temperature, salinity, and pressure. SVP is used for predicting sonar conditions.
- **source level (active).** In underwater acoustics, the total power output of an active transducer in $dB/\mu Pa$ at one yard from the transducer.
- **source level (passive).** In underwater acoustics, the amount of acoustic energy in dB radiated omnidirectionally by the target at a particular frequency. Source level is generally expressed as the average plane wave-radiated acoustic intensity in a 1-Hz band at a reference distance of one yard from the source and relative to a reference intensity of 1 μPa.
- **southern oscillation.** Multiyear variation in the surface temperature of the equatorial Pacific, which appears to have far-reaching effects on worldwide rainfall and temperature patterns.
- **special agreement vessel.** In maritime interception operations, a vessel covered by special agreements or policies for which specific alternatives to visit and search are mandated. Passenger ferries and cruise ships may be included in this category.
- **special interest vessel.** In maritime law enforcement, certain vessels registered in nations with whom the United States does not enjoy friendly and/or normal diplomatic relations and that are subject to restrictions regarding their entry into or activities in U.S. waters.
- **spectrum level.** In underwater acoustics, the level of noise or a broadband signal in a frequency band 1-hertz (one cycle per second) wide.
- **specular reflection.** A mirror-like reflection of sound rays from the ocean surface or bottom, or a target, having small irregularities compared with the wavelength of the incident sound.
- **speed made good.** The average speed maintained over a known distance, taking into account all physical and environmental factors (weather, tidal stream, current, and state of ship's hull and machinery).
- **speed of advance (SOA).** In naval usage, the speed expected to be made good over the ground. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html

AUG 2006 2-60

- **spherical spreading.** In underwater acoustics, a form of divergence governed by the inverse-square spreading law where sound energy decreases 6 dB every time the distance from the source is doubled.
- **splash line.** In SEAL team night operations, a point off the enemy beach where swimmers are put into the water from rubber boats. It must be sufficiently distant to allow completion of this phase without detection.
- **spread.** In naval gunnery, the range spread of a salvo is the distance between the round falling or bursting at the greatest distance from the firing point and the round falling or bursting at the shortest distance, excluding wild rounds. Similarly, the line spread is that which is at right angles to the trajectory.
- **spreading.** In underwater acoustics, the phenomenon whereby transmitted sound intensity decreases in a constant relationship to distance from the source.
- **spreading loss.** The phenomenon whereby transmitted sound intensity decreases in a constant relation to distance from the sound source. The spreading laws relate sound intensity to a ratio of distance from the sound source.
- **standard distance.** Unless otherwise ordered, 500 yards between small ships in a line and 1,000 yards between a large ship and any other ship, large or small, in a line.
- **standoff ASW action.** An action in which one or more ASW units attempt to engage a submarine outside 8,000 yards.
- **static haven.** In submarine operations, an area or zone established at any time by a submarine operating authority or officer in tactical command reserved exclusively for navigational use by a submarine. Also see "moving submarine haven" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **static pressure.** The portion of the total pressure in the ocean that increases with depth and does not vary with time. (The pressure that would exist in the ocean if no sound waves were present.)
- **stationing speed.** A speed slower than operational speed, specified for reasons of fuel economy, for use when maneuvering or changing station. Also see normal speed, operational speed.
- **stave.** A vertical group of individual hydrophone elements, electrically summed before being time delayed in the sonar beam former.
- **stovepipe.** A column of water made available to a submarine assigned to a deep stratum that allows it access to the surface. Typically used in conjunction with prevention of mutual interference plans during exercises involving friendly and opposition force submarines.
- **strategic readiness requirement (SRR).** As applicable to naval ordnance, the quantity of munitions needed to arm the forces not committed to support combat operations in the assigned major theater war, as well as those in the strategic reserve. This also includes any additional munitions requirements generated from treaties or statutory obligations to allies.
- **stratification.** In reference to naval ordnance, the application of assets to requirements to determine deficiencies, sufficiencies, or excesses.
- **strike operation.** An operation designed to inflict damage on, seize, or destroy an objective.
- **strike package.** An aggregation of one or more individual missions, including TACAIR and TLAM, combined to meet macro-level strike warfare objectives.

2-61 AUG 2006

- **strike planning.** The generation of a plan for employing one or more strike and support assets against one or more targets. Strike planning includes decisions on which weapon systems to employ and coordination of timing, support, and proximity between TLAM with TACAIR.
- **strike warfare (STW).** Naval operations to destroy or neutralize enemy targets ashore, including attacks against strategic or tactical targets such as manufacturing facilities and operating bases from which the enemy is capable of conducting or supporting air, surface, or subsurface operations against friendly forces.
- **strike warfare commander (STWC).** Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for strike warfare and granted the tactical control authority to accomplish the assigned missions and tasks.
- **subbottom.** In underwater acoustics, the variation in density and structure of the ocean floor. With the penetration of the ocean floor by lower frequencies, density and structure of the layers of materials making up the near-surface bottom region must be considered in acoustic range propagation.
- **submarine action area.** A waterspace management area that contains one or more friendly submarines that are the only units that may use ASW weapons within that area.
- **submarine advisory team (SAT).** Personnel assigned to the submarine operations coordinating authority to assist in the planning and execution of coordinated submarine operations.
- **submarine danger zone.** The area within the appropriate limiting lines of approach.
- **submarine depth.** The depth of the submarine's keel.
- **submarine element coordinator (SEC).** Under the composite warfare commander concept, the principal advisor to the submarine operations coordinating authority (SOCA) for submarine operations, normally serving as the SOCA staff intermediary for required liaison with the submarine operating authority and submarines.
- **submarine-generated search area (SGSA).** A temporary tactical operating area within a joint action area that is established by a submarine commanding officer to allow other ASW forces to attack subsurface contacts outside of the SGSA without further contact with the submarine. Also referred to as a "BULLPEN."
- **submarine movement advisory authority.** The authority who monitors movements of submarines and ships operating variable depth sonar or towed arrays within his area of responsibility and advises the submarine operating authorities and, if necessary, units concerned, of possible mutual interference.
- **submarine notice (SUBNOTE).** A message originated by the submarine operating authority providing operational and movement instructions for submarines in peace and war, including transit and patrol area information.
- **submarine operations coordinating authority (SOCA).** A command to which tactical control of one or more submarines has been delegated by the submarine operating authority.
- **submarine safety lane (SSL).** A special case of submarine action area consisting of a set of lanes, either geographically defined or superimposed on a grid. They are activated either wholly or in part by the submarine operating authority (SUBOPAUTH) and are used by the SUBOPAUTH to ensure the safety of submarines transiting to and from assigned areas.
- **submerged approach area.** That limited area in which the approach must be initiated by a submerged submarine to reach a firing position in the torpedo danger zone. This area is limited by the ratio of speed of the submarine to that of the target.

AUG 2006 2-62

- **surface action group (SAG).** A unit comprised of surface ships, which may be supported by fixed-wing aircraft or helicopters, formed to counter a surface threat. Unless the officer in tactical command has designated a SAG commander, the senior of the commanding officers is the SAG commander.
- **surfaced submarine.** A submarine operating on the surface, i.e., sail and main deck awash or breaking the surface.
- **surface duct (SD).** In underwater acoustics, a zone below the sea surface where sound rays are refracted toward the surface and then reflected. The rays alternately are refracted and reflected along the duct out to relatively long distances from the sound source.
- **surface mine countermeasures (SMCM).** Tactics and techniques that attend the employment of mine countermeasures and coastal minehunters to detect, reduce the effectiveness of, or eliminate enemy mines through mechanical and/or influence minesweeping devices. Explosive ordnance disposal and naval special clearance teams and the marine mammal system are also integral components of this discipline.
- **surface reverberation.** A term referring to scattered sound energy that is reflected back to the acoustic source after striking the surface of the ocean.
- **surface warfare commander (SUWC).** Under the composite warfare commander concept, the officer delegated some or all of the officer in tactical command's detailed responsibilities for surface warfare and granted the tactical control authority to accomplish the assigned missions and tasks.
- **surveillance area (SA).** In maritime operations, aerospace, airspace, surface, and subsurface areas under the systematic observation of own-force sensors to detect any object, event, or occurrence of possible military concern. The surveillance area is a subset of the area of operations. See also area of operations; classification, identification, and engagement area; vital area.
- **survey.** A procedure for determining the cause of gains, losses, or damage to Navy property, establishing personal responsibility (if any), and documenting necessary inventory adjustments to stock records. Also see survey as applied to CBR in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **survey operations.** In mine warfare, operations to collect data on the mine countermeasures (MCM) environment. They are conducted in peacetime to ascertain the suitability of conditions for the MCM.
- **suspect vessel.** In maritime interception operations, any critical contact of interest or any other vessel so designated by the combatant commander, joint force commander, naval component commander, joint force maritime component commander, or maritime interception commander.
- **sustained operations.** As applicable to combat stress and significant personnel, continuous operations or combat with opportunity for less than four per 24 hours sleep, which may be brief or fragmented.
- **sustained threat.** In mine warfare, the ability of a minefield segment to present a continuous threat level for a specified period of time despite the number of transitors or mine countermeasures efforts.
- **sweep resistance.** In mine warfare, the counter-countermeasures quality of a mine that inhibits its actuation as a result of enemy minesweeping efforts.
- **sweeping.** In mine warfare, the act of a sweeper towing and operating a sweep for mines. Term also covers the destruction of floating mines cut loose from their moorings.
- **tactical air support for maritime operations (TASMO).** Organization, operational procedures, and communications used in NATO for land- or carrier-based tactical air support of maritime offensive, reconnaissance, and air defense operations.

2-63 AUG 2006

- **tactical command (TACOM).** The authority delegated to a commander to assign tasks to forces under their command for the accomplishment of the mission assigned by higher authority. This term is used primarily in maritime operations. It is narrower in scope than operational command but includes the authority to delegate or retain tactical control.
- **tactical control (TACON).** In maritime usage, the detailed and, usually, local direction and control of movements or maneuvers necessary to accomplish missions or tasks assigned. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **tactical data system (TDS).** An automated real-time computer system in which tactical data are entered for storage, calculation, and/or display.
- tactical diameter. See transfer.
- **tactical evasion.** The use of evasive actions to avoid enemy detection where such actions are based on information concerning the capabilities and limitations of the enemy's detection equipment.
- **tactical recovery of aircraft and personnel (TRAP).** A mission performed by an assigned and briefed aircrew for the specific purpose of the recovery of personnel, equipment, and/or aircraft when the tactical situation precludes search-and-rescue assets from responding and when survivors and their locations have been confirmed.
- **tactical sonar range (TSR).** A range based on the reported predicted sonar ranges. It may make allowances for probable submarine depth, alertness of the operator, level of unit efficiency, etc.
- **takedown operation.** In maritime interception operations, the act of inserting an armed boarding team on a suspect vessel to gain control of key stations and force the suspect vessel to submit to search or diversion.
- **target.** 1. An area, complex, installation, force, unit, or equipment identified or planned for capture, neutralization, damage, or destruction by military forces. 2. To identify and select a specific entity or entities or a generic capability, function, or behavior for military action.
- **target acquisition range.** The minimum range in miles at which the designation order must be given to a gun director system so the associated radar and fire control systems may acquire the target and obtain an accurate solution in time to open fire at the maximum effective range.
- **target angle (TA).** The angle between the target track and the line of sight (LOS), measured 0° to 360° from the bow of the target to the LOS. Also see aspect and angle on the bow.
- **target designation.** The selection of targets that is to be taken under fire and the transmission of the required information for acquisition to the selected fire control station or stations. It may be classified by originating station or by means used.
- **target folder.** In TLAM operations, the set of data and remarks used as reference materials during targeting and weaponeering. A defined group of text and imagery materials. Also see DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **target height.** The vertical distance of a target above the horizontal plane through the point upon which the data computer or rangekeeper bases a solution. Usually measured in feet.
- **target information package (TIP).** A compilation of essential information about a specific target. The package includes enemy order of battle (air, land, and sea), target description, vulnerabilities, lines of communication, general and localized photography, and other all-source intelligence.

AUG 2006 2-64

- **target location error (TLE).** The difference between the measured target location and its true location on the earth.
- **target resolution.** The minimum difference in bearing, range, or elevation between two targets that will allow obtaining data on either target.
- **target strength (TS).** In underwater acoustics, a measure of the reflecting power of the target stated in dB. The ratio of the target echo is measured one yard from the target to the sound incident on the target.
- **task designator.** The number assigned to a task force, task group, or task element.
- **task fleet.** A mobile command of ships and aircraft necessary for accomplishing specific major tasks that may be of a continuing nature.
- **task group submarine area (TGSA).** A waterspace management area designated by the submarine operating authority in which one or more submarines are operating under the tactical command of the task group officer in tactical command (OTC). Waterspace management and prevention of mutual interference requirements within this area are the responsibility of the OTC or a specified subordinate commander.
- **task organization.** The organization of forces for operational purposes to provide the necessary flexibility for meeting changing operational requirements while retaining a clear indication of the chain of command.
- **task unit.** A component of a task group organized by the commander of a task group or higher authority for accomplishing specific tasks.
- **team sweep.** In mine warfare, two or more minesweepers linked together by a mechanical sweep. In influence sweeping, the interaction of sweep fields is an essential feature of the technique in use (e.g., synchronization of magnetic sweep fields).
- **terminal controller.** Those agencies and/or individuals who exercise terminal control of close air support missions. This control may include, but is not limited to, assisting the pilot in acquisition of the target and directing the flight routing of the aircraft relative to target attack.
- **theater mission library (TML).** The library of Tomahawk missions in an area of responsibility (AOR) that has been approved for distribution by the unified commander. The TML may include locally planned missions that have not been planned or distributed by a cruise missile support activity as well as master mission library missions. Each TML is managed and distributed by the theater Tomahawk database manager for the AOR.
- **thermocline.** A temperature gradient in a layer of seawater where the temperature decreases continuously with depth. Usually the gradient is greater than 2.7° F per 165 feet (1.5° C per 50 meters) of depth.
- **threat probability.** In mine warfare, the probability that a target ship passing once through a minefield will explode at least one mine and be damaged to a specified level.
- **time charter (TC).** In Military Sealift Command operations, under this type of contractual agreement that may last from a few weeks to years, the ship owner is responsible for providing the crew, managing the ship, and for paying all operational costs, excluding fuel, port charges, and canal tolls. Also see industry-owned, time chartered ships, and industry-owned, bareboat-chartered ships.
- **TLAM strike coordinator (TSC).** Under the composite warfare commander concept, the officer in tactical command's designated agent who is responsible for all TLAM strike planning, coordination, and reporting in a strike or series of strikes.
- **Tomahawk executive agent (TEA).** The commander designated by the unified commander to assume the responsibility for all Tomahawk operations in the theater.

2-65 AUG 2006

- **Tomahawk strike coordinator (TSC).** The designated agent who is responsible for all TLAM strike planning, coordination, and reporting in a strike or series of strikes.
- **topographic noise stripping (TNS).** In underwater acoustics, ambient noise from distant shipping (>1 convergence zone (CZ) range away) is attenuated, or stripped, by interaction with the ocean bottom, while the acoustic signal of interest is received via the submerged CZ propagation path. TNS may be exploited in areas where the distant shipping noise is bottom-limited, but a below-layer source is not bottom-limited, resulting in an increased signal-to-noise ratio.
- **topographic shading.** The disruption of convergence zone (CZ) or deep sound channel propagation by ocean bottom features such as seamounts, guyots, ridges, or islands. This disruption causes large shadow zones. Depth excess is destroyed for CZ propagation when a source is one-half the CZ range from such a bottom feature.
- **torpedo danger area (TDA).** The area extending beyond the furthest-on circle for an arbitrarily assessed distance of 8,000 yards.
- **torpedo danger zone (TDZ).** An area that the submarine must enter in order to be within maximum effective torpedo firing range.
- **total delivery error (TDE).** In regard to precision-guided munitions, the complex combination of the target location and weapon navigation errors that indicates the closeness of the probable weapon impact to the true location of the target.
- **total risk.** The sum of identified risk and unidentified risk. It is accepted by the appropriate decision-maker because further efforts at risk control are not justified by the perceived gain.
- **traffic ships.** As applied to mine warfare, the normal kinds and numbers of ships using a given area, usually considered major cargo and military ships.
- **transducer.** A device for converting electrical energy to underwater sound energy or vice versa. When sound energy received through the water is converted to electrical energy, the device is termed a hydrophone; when electrical energy is converted to sound energy and transmitted into the water, the device is termed a sonar projector or an echo sounder.
- **transfer.** In maneuvering, the distance gained by a ship at right angles to the original course when turning. The tactical diameter is the transfer for a turn of 180°.
- **transient.** In underwater acoustics, a target signal of varying duration, such as the cycling of valves or planes. May not be detected on narrowband systems due to integration period.
- **transmission loss (TL).** In underwater acoustics, the reduction in signal intensity (in dB) between a point one yard from the sound source and the receiving sensor. Graphically depicted as a function of range on a computer-generated propagation loss curve.
- **turbidity current.** Relative to underwater acoustics, a highly turbid, relatively dense current carrying large quantities of clay, silt, and sand in suspension that flows down a submarine slope through less dense water.
- **turnaround time.** That period beginning upon conclusion of one deployment and ending upon commencement of the next deployment.
- **turning circle.** The path of a ship holding to a constant rudder angle.
- **type organization.** The organization of forces afloat by types of ships and aircraft for administrative purposes as distinguished from tactical purposes.

AUG 2006 2-66

- unacceptable risk. The risk that cannot be tolerated and must be eliminated or controlled.
- **uncertainty phase.** See "search and rescue incident classification" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **uncooperative boarding.** Occurs when a contact of interest's master and crew disregard hailing and proceed on a course demonstrating intent to deny cooperative boarding.
- uncountered field. A minefield against which the enemy takes no mine countermeasure actions.
- **underwater electric potential (UEP).** Alternating and static electric fields caused by electric current flowing through dissimilar metals in a ship's underwater hull.
- **underwater mine countermeasures (UMCM).** The tactics and techniques that attend the employment of explosive ordnance disposal, naval special clearance team, and/or marine mammal system to perform minefield reconnaissance and/or acquire, reacquire, identify, neutralize, dispose of, render-safe, and exploit moored and ground mines planted within the depth capability of existing underwater breathing apparatus.
- **unidentified risk.** The risk that has not been identified. It is unknown or immeasurable.
- **uplink.** In submarine usage, one-way communications from a submarine.
- **upslope enhancement.** Acoustic energy from a source in deep water changes from a convergence zone or sound channel path to a bottom bounce path as the bottom shoals and is concentrated up the slope to a receiver in shallow water. Also known as the inverse megaphone effect.
- **urgent attack.** In ASW, an attack delivered with maximum rapidity against a submarine located in a position such that it is considered an immediate threat. Speed of reaction is more vital than accuracy. Also see deliberate attack
- **variable depth sonar (VDS).** A sonar whose transducer is towed beneath its parent ship with the object of improving sonar detection ranges by permitting the sonar to operate beneath a layer.
- **vertex depth.** In underwater acoustics, the depth in the water at which a refracted sound ray becomes horizontal.
- **vertex sound speed.** In underwater acoustics, the speed at which a refracted sound ray becomes horizontal.
- **vertical component.** In mine warfare, that component part of the total magnetic field in the vertical plane.
- **vertical launch system (VLS).** A system on surface ships that provides stowage, support, and launch capabilities for Tomahawk, standard missiles, and vertical launch antisubmarine rockets.
- **vertical onboard delivery (VOD).** Logistics movement of high-priority passengers/mail/cargo to/from aviation and air-capable ships.
- **visit, board, search and seizure.** Procedures by which U.S. forces conduct maritime interception operations in order to determine the true character of vessels, cargo, and passengers.
- **vital area (VA).** In maritime operations, the designated zone surrounding a mission-essential unit(s), force(s), installation(s), or location(s) to be defended by the force. The outer limit of the vital area is normally equal to or greater than the threat weapons release range of opposition forces. Multiple vital areas may be established within a classification, identification, and engagement area. See also area of operations; surveillance area; and classification, identification, and engagement area.

2-67 AUG 2006

- **vital deficiency.** A deficiency that affects the operational ability of a unit to such an extent that it is in no condition to perform the mission. This deficiency might be one of material or personnel and is beyond the capacity of the unit to remedy without outside assistance.
- **voyage charter (VC).** Under the terms of a voyage charter, the owner remains completely responsible for the operation of (and the associated costs of) the ship including fuel, port, and canal charges. The charter party provides for the ship to make a transit between a specific seaport of embarkation and a specific seaport of debarkation.
- **walking.** In mine warfare, a contact that is not geographically stationary as plotted on the navigation display. Used as an indication that the sonar is tracking biological life-forms (school of fish, whales, etc.).
- war reserve munitions requirement (WRMR). The sum of combat requirement, strategic readiness requirement, and current operation/force protection requirement.
- warm core eddy. Large warm water mass that has broken off from its parent water mass into a different water mass yet retains its specific properties for long periods (6 to 9 months) before being assimilated.
- **washover effect.** Wave action that grounds out the sonobuoy antenna. Normally becomes apparent at sea state 4 and can be heard aurally and observed on radio frequency meters.
- water clearance authority (WCA). An activity that controls and monitors the flow of cargo into ocean terminals. Also see "Ocean Cargo Clearance Authority" in DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html.
- waterfront facility. All piers, wharves, docks, and similar structures to which vessels may be secured; areas of land, water, or land and water under and in immediate proximity to them; buildings on such structures or contiguous to them; and equipment or materials on such structures or in such buildings.
- waterside security. Measures or actions taken to prevent or guard against the use of a waterside approach to a waterfront facility or vessel by persons or vessels intent on theft, sabotage, terrorism, and/or belligerent acts.
- waterspace management (WSM). The allocation of surface and underwater spaces into areas and the implementation of agreed procedures to permit the coordination of assets. The intention is to prevent mutual interference between submarines or between submarines and other assets, while enabling optimum use to be made of all undersea warfare assets involved.
- wave length, sound. In underwater acoustics, the distance between corresponding points of adjacent sound waves; measurement is determined by the ratio of speed to frequency.
- waypoint. In TLAM operations, 1. An engagement planner-designated location through which the missile is directed to fly during the overwater phase en route to the first preplanned waypoint. Overwater waypoints are optional and flexible. 2. A mission planner-designated location through which the missile is directed to fly during the overland phase en route to the target. Overland waypoints are integral action points in the mission and cannot be changed without replanning the mission. Also see "way point" DOD Dictionary (JP 1-02). http://www.dtic.mil/doctrine/jel/doddict/index.html
- **weapon control.** The technique of delivering effective fire on a selected target. Effective fire control is accomplished in the following sequence of operations: search, target indication, target designation, target acquisition, tracking, predicting, weapon laying, weapon firing, and spotting. It is classified by system or by method of directing.
- **weapon navigation error (WNE).** Relative to GPS and precision-guided munitions, the difference between the measured weapon location and its true location with respect to the Earth.

AUG 2006 2-68

weaponeering. The process of determining the quantity of a specific type of lethal or nonlethal weapon required to achieve a specific level of damage to a given target, considering target vulnerability, weapon effect, munitions delivery accuracy, damage criteria, PFC, and weapon reliability.

weapons posture (WP). A method to configure gun/launcher, weapons direction systems/fire control, command-and-decision systems, ordnance, and weapons release authority into three broad categories designed to provide common configuration baselines to reduce the possibility of unintended or accidental weapons release and launch. WPs impose mechanical, electrical, and doctrinal safeguards to prevent weapon release unless authorized by competent authority; heighten awareness of combat systems personnel to the possibility of inadvertent weapon launches; and provide operational commanders a means to direct weapon systems readiness of the forces they command by assigning the appropriate WP for each weapon system for the tactical situation.

white noise. Random, incoherent electrical, electronic or acoustic background energy.

zero time. 1. In executing an antisubmarine search, the time that the center of the search line passes through the datum. 2. The time a zigzag plan commences, always on the hour. The formation can begin execution at any time but will steer the course shown on the plan for that particular time relative to zero time.

zigzag. In ASW, straight-line variations from the base course performed in accordance with a set plan.

2-69 AUG 2006

INTENTIONALLY BLANK

AUG 2006 2-70

CHAPTER 3

Abbreviations and Acronyms

3M maintenance and material management system

A/A air-to-air

A/C aircraft

A/G air-to-ground

A/J antijam

A/N alphanumeric

A/P automatic pilot

A/S airspeed/air-to-surface

AA acoustic advantage; acoustic analysis; antiair; antiaircraft

AA&E arms, ammunition, and explosives

AAA antiaircraft artillery; arrival and assembly area; assign alternate area; advance acous-

tic analyst

AAAV advanced amphibious assault vehicle

AABFS amphibious assault bulk fuel system

AABWS amphibious assault bulk water system

AADC area air defense commander

AADS amphibious assault direction system

AAFS amphibious assault fuel system

AAFSF amphibious assault fuel supply facility

AAI air-to-air integration; air-to-air interrogator

AAM air-to-air missile

AAMDC area air and missile defense commander

AAR aircraft accident report; air-to-air refueling; after action report; after action review

3-1 AUG 2006

AASP arrival and assembly support party

AATC amphibious air traffic control

AAV amphibious assault vehicle

AAVP assault amphibious vehicle, personnel

AAW antiair warfare (NATO)

AAW(C) antiair warfare coordination (net) (NATO)

AAW(R) antiair warfare reporting (net) (NATO)

AAWC antiair warfare commander (net) (NATO)

ABDR aircraft battle damage repair

ABF advance beam forming; advanced beam former

ABFC advanced base functional component

ABFS amphibious bulk fuel system

ABL acquisition before launch/acquire before launch; armored box launcher

ABLTS amphibious bulk liquid transfer system

ABM antiballistic missile

ABO assistant boarding officer

ABT automatic bus transfer

AC air conditioning; air controller; air corridor; airspace controller; antichaff (mode); at-

tack control; automatic correlation

ACA airspace control authority; airlift clearance authority; appropriate command author-

ity; air control authority

ACAL acoustic calibration; altitude calibration

ACB amphibious construction battalion

ACCM acoustic counter-countermeasures

ACCON acoustic control

ACCS advanced communications control system; automated command and control system

ACDS advanced combat direction system

ACE airborne command element; air combat element; aviation combat element

ACF alternate command facility; air contingency force; automatic contact follower/

following

ACFT aircraft

ACG amphibious command group; automatic continuous gridlock

ACHOBS assistant chief observer

ACIC airborne combat information center; advanced control indicator set

ACINT acoustic intelligence

ACLS automatic carrier landing system

ACM acoustic countermeasures; air combat maneuvering; annual corrective maintenance

ACN advance change notice; air control net

ACO acoustic console operator; acquisition control order; action cut out; administrative

contracting officer; air contact officer; air control officer; air control order; airspace

control officer; airspace control order

ACOMMS acoustic communications

ACP air control point; aircraft communications procedures; airspace control plan; allied

communication publication; armament control panel; assign common pool; audio

converter processor; auto correlation processor

ACPA adaptive controlled phased array

ACQ acquire; acquisition; acquisition radar

ACR auxiliary control relay

ACS AEGIS combat system; afloat correlation system; amphibious command ship; auto-

matic channel select; automatic control system; auxiliary crane ship

ACSM acoustic warfare support measures

ACTS AEGIS combat training system

ACU antenna control unit; automatic control unit; auxiliary control unit; air control unit;

administrative control unit; aircraft control unit

ACV air cushion vehicle

ACWS aircraft control and warning system

AD actual depth; aided detect/detection; air defense; airspace deconfliction; area defense;

attack director; automatic detect; automatic detection; destroyer tender

AD C&R air defense coordination and reporting (net)

AD/T air detector/tracker

3-3 AUG 2006

ADA air defense alert; auxiliary data area; air defense artillery

ADAFCO air defense artillery fire control officer

ADAR AEGIS data reduction

ADB acoustic distribution box; aircraft discrepancy book

ADC air detection controller; acoustic decoy cartridge; acoustic device countermeasure;

air defense commander

ADCAP advanced capability

ADCC air defense command center; air defense control center

ADCP adaptive detection and correlation program

ADCS air data computer set

ADD acoustic deception device; air defense district

ADDS air deployment delivery system; automated digitial data system

ADE aerial delivery equipment; air defense element; aircraft data entry; automatic data

entry

ADF automatic direction finder

ADG AEGIS display group

ADGE air defense ground environment

ADI altitude-direction indicator; air defense initiative; analog display indicator

ADIZ air defense identification zone

ADL advanced data link; airborne data link; armament data line

ADLL angle deck launch line

ADLM air delivery land mine

ADM acoustic database manager; advanced development model; atomic demolition muni-

tion; automatic detection mark

ADMG air defense machine gun

ADNS automated digital network system

ADOA air defense operations area

ADP acoustic data processor; air defense plan; automatic data processing; autopilot data

processor

ADS active dipping sonar; advanced deep-dive system; advanced deployable system;

3-4

AEGIS display system; aerial delivery system; air(space) deconfliction system; air-

craft decontamination station; air defense ship; air defense system

ADSI air defense system integration; air defense systems integrator

ADSS area defense system suppression

ADT air data terminal; automated detection and tracking; automatic detection and tracking

ADTS automated detection and tracking system

ADU air defense unit; above-deck unit; auxiliary display unit; airborne data unit

ADZ amphibious defense zone

ADZC air defense zone coordinator; amphibious defense zone coordinator

AE ammunition ship; acoustic emission; active emission; assault echelon; assumed en-

emy; auxiliary exhaust steam

AEA active electronic attack

AEB active electronic buoy; emergency breathing air

AED active electronic decoy; electronic dry air

AEF active emitter file

AEL airborne exposure limit; allowance equipage list

AEM adaptive energy management; autonomous evasion maneuver

AEP automated environment prediction

AERP acoustic emissions receiver/processor; active emission receiver processor

AEW airborne early warning

AEW/C airborne early warning/control

AEWCU airborne early warning control unit

AF audio frequency; augmentation force; store ship

AFB airframes bulletin

AFC airframe change; area frequency coordinator; assault force commander; automatic

frequency control

AFCS automatic flight control system

AFD acoustic firing device

AFDB large auxiliary floating drydock (non self-propelled)

3-5 AUG 2006

AFDL small auxiliary floating drydock (non self-propelled)

AFDM medium auxiliary floating drydock (non self-propelled)

AFDS amphibious flagship data system

AFL assault flight leader; assault force leader

AFM aviation fleet maintenance

AFMA afloat fleet maintenance activity

AFOG airfield operation group

AFOM active figure of merit

AFOS assault follow-on shipping

AFOTC alternate force over-the-horizon track coordinator

AFS combat store ship

AFSK audio frequency shift keying

AFT automatic frequency track

AFTS automated frequency tone shift

AG general auxiliary ship

AGB ice breaker

AGC automatic gain control

AGER environmental research ship

AGF miscellaneous command ship

AGI auxiliary general intelligence; intelligence collection ship

AGM air-to-ground missile; missile range instrumentation ship; major communications re-

lay ship

AGOR oceanographic research ship

AGPU aviation ground power unit

AGS aviation ground support; surveying ship

AGSE aviation ground support equipment

AH hospital ship

AHC attack helicopter commander

AHP allied hydrographic publication

Al airborne interceptor; airborne intercept; air interdiction; area of interest; air intelli-

gence; air intelligence (officer); amplitude input; attitude indicator

AIAC auto initiate-auto confirm

AIC air intercept control; air intercept controller, airspace information center; airborne in-

terceptor control

AIDS attitudinal information data system

AIF automated installation file

AIG air intelligence group

AIM air intercept missile

AIMD aircraft intermediate maintenance department

AINS astro-inertial navigation system

AIR air inflatable retarder; aircraft inventory record; acoustic intercept receiver

AIR TACMAN aircraft tactical manual

AIRBOC airborne rapid bloom offboard countermeasure

AIRDET air detachment

AIREM air effectiveness measurement

AIROPAUTH air operating authority

AIROPS air operations

AIS acoustic intercept systems; alternate interim successor; automated information

system

AIZ air intercept zone

AJ auto-jam(ming)

AK cargo ship

AKR vehicle cargo ship

ALC automatic level control; automatic light control; air logistics coordinator

ALCM air-launched cruise missile

ALD aviation logistics division; available-to-load date; annotated local display

ALDV air-launched decoy vehicle

3-7 AUG 2006

ALM air-launched missile system

ALMS air-launched missile system

ALNOT alert notice

ALO air liaison officer

ALP air-launched platform; allied logistics publication

ALS automatic landing system; all-weather landing subsystem; ambient-limited speed

ALSS advanced logistic support site

ALT alteration; alternate; altimeter

ALTCOM alternate command/commander

ALTCOMCEN alternate command center

ALTCP alternate command post

ALTHQ alternate headquarters

ALWT advanced lightweight torpedo

ALZ assault landing zone

AM acoustic module; acoustic monitoring; amplitude modulation; alternate mode; array

monitoring

AMAC armament monitor and control

AMC airborne mission commander; austere maritime capability

AMCC ashore mobile contingency communications

AMCCS Marine air command and control system; Advanced Modular Command and Control

System

AMCIT American citizen

AMCM airborne mine countermeasures

AMD activity manning document; activity manpower document

AMDAS airborne mine detection and surveillance

AMG antenna mast group

AMHS automated message-handling system

AMIO alien migrant interdiction operations

AMO aircraft maintenance officer

AMR aircraft mishap report; associated measurement report; auxiliary machinery room

AMRAAM advanced medium-range air-to-air missile

AMRS automated merchant ship reporting system

AMS alteration management system

AMSL above mean sea level

AMTRAC amphibious tractor

AMVER automated mutual assistance vessel rescue

AMW amphibious warfare

ANAPROP anomalous propagation

ANC afloat net control

ANDVT analog narrow band digital voice terminal

ANGLICO air/naval gunfire liaison company

ANL automatic noise limiting; net laying ship

ANM ambient noise measurement; acoustic noise maker/making

ANS automatic navigation system

ANT antenna

ANTOPS Antarctic operations

AO air officer; approach officer; area of operations; action officer; aerial observer; oiler

AOA amphibious objective area; angle of arrival; angle of attack

AOB advanced operations base; air order of battle; angle of bank; angle on the bow; avia-

tion operations branch

AOBT acoustic onboard trainer; acoustic on-board training

AOC air operations center; area operational commander; automatic overload control

AOE angle of endfire; fast combat support ship

AOG air operations group; gasoline tanker; airfield operation group

AOI area of interest

AOJ acquisition on jam

AOP air operations plan; airborne observation post; airborne operational program; area of

probability; average output power; avionics operational program

3-9 AUG 2006

AOR area of responsibility; replenishment oiler

AOSD APS operations support detachment

AOU area of uncertainty

AP advance party; aim point; allocatable processor; anomalous propagation; armor

piercing; attack position; average power; personnel transport

APA air patrol area

APB self-propelled barracks ship

APC area of positive control; armored personnel carrier

APEL allied publication electronic library

APET acoustic passive elevation tracker

APF afloat prepositioning force

APG aimpoint graphic

APL arracks craft (non self-propelled); allowance parts list

APM acoustic protective measures

APO afloat prepositioning operations

APOD/SPOD aerial port of debarkation/seaport of debarkation

APOE aerial port of embarkation

APP acoustic performance prediction; Allied Procedures Publication; auxiliary power

plant

APR acoustic passive ranging; air-purifying respirator

APS acoustic prediction system; adaptive processor sonar; adaptive processor system; ad-

vanced planning system; afloat planning system (TLAM); allocation processor; au-

tomated planning system; afloat prepositioning ship

APT all-purpose tracker; armor piercing tracer; advanced phase training; automatic pic-

ture transmission

APU auxiliary printer unit; auxiliary propulsion unit; auxiliary power unit

APZ ASW patrol zone

AR aerial refueling; antiradar; antiradiation; armor; artillery rocket; aircraft rocket;

armed reconnaissance; automatic rifle; repair ship

ARA assigned responsible agency

ARC air reporting control; airborne radio control; cable repairing ship

AUG 2006 3-10

ARCOPS Arctic operations

ARCT air refueling control time

ARD auxiliary repair drydock (non self-propelled)

ARDF airborne radio direction finding

ARDM medium auxiliary repair drydock (non self-propelled)

AREC air resource element coordinator

ARF amphibious ready force

ARFF aircraft rescue and fire fighting

ARG accident response group; amphibious ready group

ARI azimuth and range indicator

ARIP air refueling initial point

ARL airborne reconnaissance low; aspect ratio limiting; assault rocket launcher

ARM antiradar (or radiation) missile

ARMCT area religious ministry coordination team

ARO aerial reconnaissance officer; auxiliary readout display

ARP airborne reconnaissance platform; airborne relay platform

ARPR automatic radar pattern recognition

ARR allowance requirements register; analysis receiver ready; antenna rotation rate

ARS acute radiation syndrome; air refueling store; auto ready spare; automatic receive sys-

tem; assault rocket launcher; salvage ship

ART amphibious reconnaissance team

ARTC auto remote track correlation

ARTIS advanced radar target identification system

ARU amphibious reconnaissance unit

A-RVM air-dropped rising vertical mine

ARWS antiradiation weapon system

AS associated support; submarine tender; acoustic supervisor; antispoof (GPS); auto-

matic sprinkler; auxiliary steam aviation section

3-11 AUG 2006

ASA accelerated standalone; analog signature analysis; auxiliary spectral analysis; auxil-

iary spectrum analyzer

ASAC antisubmarine air controller

ASAG air-surface action group

ASAR advanced synthetic aperature radar; air search acquisition radar

ASAT air search attack team; antisatellite

ASAU air search attack unit

ASB advanced support base; air situational broadcast

ASC acoustic support console; air support control; air support coordinator

ASCM all-source contact management; antiship cruise missile

ASD air support director; arm and safe device

ASDS advanced sea-air-land (SEAL) delivery system; air situation display system

ASE aircraft survivability equipment; air support element; aviation support equipment

ASF augmentation security force

ASI aircraft sensor input; automated shore interface

ASIP all-source imagery processor

ASK acoustic suppression kit; amplitude shift keying

ASL above sea level; allowable supply list; archipelagic sea lane

ASM air-to-surface missile; antiship missile; attack sea mine

ASMB aviation support management branch

ASMD antiship missile defense

ASO acoustic sensor operator; aviation safety officer

ASP advanced signal processor/processing; ammunition supply point; antenna scan

period

ASPB assault support patrol boat

ASPECT active system performance estimate computer tool

ASPJ airborne self-protection jammer

ASR air surveillance radar; assault support request; automatic send/receive; submarine

rescue ship; airborne search & reconnaissance; airborne search radar; airport sur-

veillance radar; armed surface reconnaissance

ASRAPS acoustic sensor range prediction system

ASROC antisubmarine rocket

ASRP AEGIS ship reference point

ASSG acoustic sensor signal generator

ASST antisurface ship surveillance and targeting

AST accelerated service test

ASTAB automatic status board

ASTD antiship torpedo defense

ASU acoustic sensor unit

ASUWC antisurface warfare commander (NATO)

ASW antisubmarine warfare

ASWACS antisubmarine warfare air control ship

ASWC antisubmarine warfare commander; antisubmarine warfare centers

ASWCCCS antisubmarine warfare centers command control system

ASWEPS antisubmarine warfare environmental prediction system

ASWFA antisubmarine warfare free area

ASWFCO antisubmarine warfare fire control officer

ASWO antisubmarine warfare officer

ASWOC antisubmarine warfare operations center; antisubmarine warfare operations console

ASWS antisubmarine warfare system; advanced strike weapons system

ASWTDS antisubmarine warfare tactical data system

ASWTN antisubmarine warfare track number

AT acceptance trials; airtight; antitank; avionics technician

ATA actual time of arrival; airport traffic area; automatic threat alert; automatic track asso-

ciation; auxiliary ocean tug

ATAC air-transportable acoustic communication; airborne tactical air coordinator; ad-

vanced traceability and control; Navy antiterrorist alert center

ATACC advanced tactical air command center

ATACO air tactical control officer

3-13 AUG 2006

ATACS amphibious tactical air control system

ATAR antitank aircraft rocket

ATC air test cap; air track coordinator; air traffic control; air transportable clinic

ATCO air traffic control officer

ATCU air transportable communications unit

ATD actual time of departure; advanced technology demonstration; advanced torpedo de-

coy; automatic target detection; active track display; automatic target detector

ATDC airborne tactical data control

ATDS automatic target detection system; airborne tactical data system

ATE active track evaluation; airborne terminal equipment; automatic test equipment

ATF automatic tracking feature; automatic target following; fleet ocean tug; amphibious

task force

ATG afloat training group; amphibious task group; antenna transceiver group

ATH above the horizon

ATI active transition indicator; ambient temperature illuminator

ATIS automatic terminal information service

ATL assault team leader

ATM air tasking message; air tracker mode; array termination module; asynchronous trans-

fer mode; automated track management; automatic target management

ATO antiterrorism officer; air tasking order; airborne tactical officer; assisted takeoff

(system)

ATOC air terminal operations center

ATOD automatic time of day

ATOI air target of interest

ATON aids to navigation

ATOX ATO express

ATP Allied Tactical Publication; advanced tracking prototype

ATR ammunition transaction report

ATS acoustic tracking station; acoustic track(ing) supervisor; air traffic service; air traffic

supervisor; ammunition tracking system; advanced tactical surveillance; salvage

and rescue ship

ATSB advanced tactical support base

ATSG acoustic test signal generator

ATV all-terrain vehicle

AUM air-to-underwater missile

AUR all-up round

AUTOCAT automatic communication airborne transfer

AUTODIN automatic digital network

AUTOSEVOCOM automatic secure voice communications

AUX auxiliary

AV aviation

AVB aviation logistic support ship

AVCAL aviation consolidated allowance list

AVDLR aviation depot-level repairable

AVLB armored vehicle-launched bridge

AVM auxiliary guided missile ship

AVMRL armored vehicle-mounted rocket launcher

AVNL automatic video noise limiting

AVSDU analog-video signal display unit

AVT automatic video tracking

AW acoustic warfare; air warfare

AW (C) (net) air warfare coordination

AW (R) (net) air warfare reporting

AWACS airborne warning and control system

AWC air warfare commander

AWCAS all weather close air support

AWCCM acoustic warfare counter-countermeasures

AWCLS all-weather carrier landing system

AWCM acoustic warfare countermeasures

3-15 AUG 2006

AWR automated work request

AWS Amphibious Warfare School; AEGIS weapon system; air warfare section; air weather

service; analysis workstation

AWSM acoustic warfare support measures

AWTT above water thrown torpedo; above water torpedo tub

AXBT airborne expendable bathythermograph

AXP Allied Exercise Publication; ambulance exchange point

B&T ballast and trim

B/B break bulk; bridge-to-bridge

B/N bombardier/navigator

B/U backup

BA beam amplitude; bleed air; bridge demolition, abutment (abbreviation used on an en-

gineer obstacle overlay); relative target bearing

BACS back analog communications switch

BADGE basic air defense ground environment

BAI battlefield air interdiction; bottom area of interest

BAM binary angular measure

BAP ballistic aimpoint

BAR barrier

BAR ALT barometric altitude

BARB beacon-aided radar bombing

BARC barge, amphibious, resupply cargo

BARCAP barrier combat air patrol

BARJAM barrage jammer

BARO barometric

BAROPS barrier operations

BASS battlefield area surveillance system

BB battleship; bottom bounce; broadband; breakbulk

3-16

BBC beam-to-beam correlation

AUG 2006

BBCM broadband countermeasure

BBL barrel (42 U.S. gallons)

BBR bottom bounce range

BBS baseband switch; bulletin board system; buoyancy subsystem

BBU battery backup unit

BC battle captain; biological/chemical

BCA broadcast control authority; buoyant cable antenna

BCC budget classification code

BCD battlefield coordination detachment; binary coded decimal

BCM beyond capability of maintenance

BCP ballast control panel; battery command post

BCR baseline change request

BCS broadcast control station

BCSN broadcast sequence number

BCST broadcast

BCU beach clearance unit

BD band; base detonating; best depth

BDA battle damage assessment

BDF base defense force; base detonating fuze

BDHI bearing-distance-heading indicator

BDI battle damage indications; bearing deviation indicator

BDS battle dressing station; bomb director system/set

BDU battle dress uniform; battle dress utility; below-deck unit; bomb dummy unit; basic

display unit

BE battlefield environment; bearing error

BEACO brief encounter acoustic collection opportunity

BESEP basic electronics system engineering plan

BEZ beach exit zone

3-17 AUG 2006

BF base frequency; bulk fuel

BF/BGC battle group cellular

BFI bearing frequency indicator

BFIMA battle force intermediate maintenance activity

BFL bomb fall line

BFLC battle force logistics coordinator

BFM basic fighter maneuvers

BFO beat frequency oscillation; beat frequency oscillator

BFRL base facilities requirements list

BG/TF battle group/task force

BG/TG CMD battle group/task group command

BGC battle group commander; boat group commander

BG CMD battle group command

BGCTT battle group commander tactical training

BGDBM battle group database management; battle group database manager

BGLC battle group logistics coordinator

BGML battle group mission library

BGPHES battle group passive horizon extension system

BHA bomb hit assessment

BI beacon interrogator; bearing interrogation

BIAS buoyant integrated antenna system

BICEPS brevity, immediacy, centrality, expectancy, proximity, and simplicity

BIDS bridge information display system

BIMP ballistic impact point

BIS bottom imaging sonar

BISS base and installation security program

BIT beam interpolation tracker; built-in test

BITE built-in test equipment

BITS built-in test system

BIU beach interface unit; buoy interface unit

BIW basic infantry weapon

BKGD background

BKLKTNG break-lock EA training

BKS broadcast keying station

BL band level; baseline length; bottom loss; bracketing ladder; broadcast list

BL&P blind-loaded and plugged (projectile)

BLC boundary layer control

BLG below-layer gradient

BLK block

BLOS beyond line of sight

BLP bottom leaded plastic

BLR below layer range; blower; boiler

BLS beach landing site

BLT battalion landing term

BLUG bottom loss upgrade

BM battle management; beachmaster

BMD buried mine detector

B-MI bottom minelike object

BN barrage noise

BNL background noise level

BO bearing only; boarding officer

BOA broad ocean area; beach operating area

BOC battery operations center

BOG beach operations group

B-OI bottom object on interest

BOL bearing-only launch

3-19 AUG 2006

BOM bit-oriented message; by other means; bill of materials

BOSG base operations support group

BOT beginning of tape

BP ballistic processor; bearing profile; bandpass

BPD basic point defense; beach party division

BPH barrels per hour

bps bits per second

BPS break point speed

BPSK binary phase shift keying

BPT beach party team

BR bearing and range; bearing rider; blade rate

BRAA bearing, range, altitude, and aspect

BRC base recovery course

BRD bearing and range difference; best receiver depth

BRI bearing range indicator; bearing rate image

BRIGAND bistatic radar intelligence generation and analysis system

BRL bomb release line

BRM bottom reference mode

BRP ballistic release point; beam interpolation tracker remote readout

BRS broadcast radiating station

BS bottom sounding or bottom-surface (propagation path); bottom-surface; briefing sup-

port; bystatic sonar

BSA beach support area; brigade support area; body surface area; bow/stern algorithm

BSS bottom sounding secure; buoyancy subsystem

BSU blood support unit; bomb stabilization unit

BT boarding team; break transmission; bathythermal; bathythermograph; burnthrough;

builder's trail

BTA beep trim actuator

BTB bridge-to-bridge

BTH bearing time history

BTM boarding team member

BTP bearing track program

BTR bearing time recorder

BTRY battery

BTU beach termination unit

BU backup; builder

BUDS basic underwater SEAL (sea-air-land) (training)

BULK bulk cargo

BUNO bureau number

BVP beacon video processor

BVR beyond visual range

BW bandwidth; bearing window; biological warfare; beamwidth

BWC bandwidth correction; battle watch captain; boat wave commander

BWT basic warrior training

BZ beach zone

C and D cover and deception

C&DS command and decision system

C&I communications and information

C&R coordination and reporting

C&R net coordination and reporting network

C/B chemical/biological

C/C change in course

C/D change in depth

C/S call sign; change in speed

C/V criticality/vulnerability; cushion vanes

C2 command and control

C2W C&R command and control warfare coordination and reporting (net)

3-21 AUG 2006

C3 command, control, and communications

C3CM command, control, and communications countermeasures

C3I command, control, communications, and intelligence

C4 command, control, communications, and computers

C4I command, control, communications, computers, and intelligence

C4ISR command, control, communications, computers, intelligence, surveillance, and

reconnaissance

CA civil administration; civil affairs; combat assessment; coordinating altitude

CAA coordinating authority for air

CAB combat advisory broadcast; combined A-scan/B-scan

CABE computer-assisted bearing estimate

CAC combined arms center (U.S.A.); control air; computer-aided classification; continu-

ous aim correction

CACC commander, air component command

CAD catapult steam drain; collective address designator; computer automated design;

computer-aided detection; cartridge-actuated device

CADA computer-assisted distribution and assignment

CADC central air data computer

CADJ counter angle deception jammer

CADOB consolidated air defense order of battle

CAFI computer-aided fault isolation

CAFSU carrier and field service unit

CAG carrier air wing commander; civil affairs group; collective address group

CAl cooperative aircraft identification

CAIC corps airspace information center

CAIMS conventional ammunition integrated management system

CAINS carrier aircraft inertial navigation system

CAL confined area landing

CALCM conventional air-launched cruise missile

CALM computer-aided load manifesting

CAP combat air patrol; computer access panel; crisis action planning

CAPC carrier aircraft plane commander

CAPCU combat air patrol control unit

CAPS channel access protocols; combat airdrop planning software; commander's analysis

and planning system; consolidated aerial port system

CAPTOR encapsulated torpedo mine (mine Mk 60)

CARG commander, amphibious ready group

CARP computer and radar processor

CARQUALS carrier qualifications

CART cargo afloat rig team; consolidated ASW readiness test; controlled alert response ter-

minal; command assessment of readiness and training

CAS calibrated airspeed; casualty; close air support; collaboration at sea; combined an-

tenna system; computer-aided search

CAS/STIR combined antenna system/separate track illuminating radar

CASCON close air support control

CASP computer assisted search planning (system)

CASREP casualty report

CASS command-activated sonobuoy system; comprehensive acoustic simulation system;

consolidated automated support system

CAT catapult; clear air turbulance; combined acceptance trials (ships); communications

assist team; container anchorage terminal; command action team

CATCC carrier air traffic control center

CATF commander, amphibious task force

CATM coordinated air tasking message; combined air tasking message

CAX combined arms exercise

CB chemical/biological; circuit breaker; construction battalion (SEABEES);

counterbattery

CBC construction battalion center

CBDR constant bearing, decreasing range

CBIL common bulk item list

3-23 AUG 2006

CBLUG consolidated bottom-loss upgrade

CBM condition-based maintenance; cruise ballistic missile

CBMU construction battalion maintenance unit

CBR chemical, biological, and radiological

CBRD chemical, biological, and radiological defense

CBRN Caribbean Basin Radar Network; chemical, biological, radiological, or nuclear

CBRT chemical-biological response team

CBT continuous boat track; computer-based training

CBU cluster bomb unit; conference bridge unit; construction battalion unit; color burst unit

CBW chemical and biological warfare

CC contact coordinator; contributing command; control console; crew chief;

crosscorrelate(d)

CCA carrier-controlled approach; carrier control area; circuit card assembly; contamina-

tion control area; craft collection area; LCAC control area

CCAS combat control and acoustic system

command and control center; command, control, and communications; communica-

tions center computer; computer complex casualty; critical control circuit

CCD camouflage, concealment, and deception

CC-DTD common conventional DTD

CCG Cartesian coordinate grid; commander, carrier group; combat communications

group; computer control group

CCIP continuously computed impact point

CCIR commander's critical information requirements

CCJTF commander, combined joint task force

CCM communications countermeasures; cooperative countermeasures; counter-

countermeasures

ceiling cutout; central control officer; circuit control officer; combat cargo officer

CCOI critical contact of interest

CCP combined command post; casualty collection point; casualty control panel; consoli-

dation/containerization point; consolidated cryptologic program; converter control processor; countermeasure control panel; craft control point; cushion (LCAC) con-

trol point

CCR closed circuit refueling

CCRS combat craft retrieval system

CCS central control station; constellation control station; constrained course and speed;

control and communication subsystem; cockpit control system; combat control sys-

tem; command and control system

CCSP common contingency support package; combat cryptologic support console

CCSS combat cryptologic support system

CCTV closed circuit television

CCU cockpit control unit; common control unit

CCW counterclockwise

CCWS common cryptologic workstation; cryptologic combat weapon system

CD civil defense; collateral damage; chart datum; command display; command destruct;

counterdetection; counterdrug; critical depth; compact disk

CDB central database; common database

CDC common display console; computer display console; combat direction center

CDCO combat direction center officer

CDE central data exchange; chemical defense equipment; common desktop environment

CDF combat direction finding

CDG control display generator

CDI control display indicator; course deviation indicator

CDIP consolidated defense intelligence program

CDITEG command digital television generator

CDM chemical downwind message; configuration data manager

CDP computer data processor; control display processor; craft departure point; landing

craft air cushion (LCAC) departure point; cumulative detection probability; concept

development plan

CDPS communications data processing system

CDR cargo drop reel; control display repeater; counterdetection range; critical design

review

CDS combat direction system; control display subsystem; command destruct system; con-

ventional dive system

3-25 AUG 2006

CDU consolidated diver unit; control display unit; cockpit display unit

CDWS control and display workstation

CE circular error; civil engineer; clutter envelope; command element; construction engi-

neer; contact evaluation; cooperative engagement

CEB combined effects bomblet

CEC cooperative engagement capability

CED captured enemy documents; critical event debrief

CEDF cooperative engagement data file

CEE captured enemy equipment

CEG central equipment group

CEI communications-electronics instruction

CEM cryptologic electronic countermeasures; combat effectiveness measure

CENTRIXS combined enterprise regional information exchange system

CEO central control officer

CEOI communication and electronic operating instructions

CEP combat entry point; contact evaluation plot; cooperative engagement processor; cir-

cular error probable

CEPN cooperative engagement processor number

CERT civil engineer reconnaissance team; computer emergency response team; certifica-

tion/certified; combined environmental reliability test(ing); crew escape and rescue

technique

CERT ID certified identification

CERTSUB certain submarine

CESE civil engineering support equipment

CESM cryptologic electronic support measures

CFA cognizant field activity; crossfield amplifier; conformal array

CFAR constant false alarm rate

CFE contractor furnished equipment

CFL coordinated fire line

CFM CONUS freight management

AUG 2006 3-26

CFOTC composite FOTC

CFP concept formulation plan

CFPS combat flight planning software

CFR Code of Federal Regulations; crash, fire, and rescue; cylinder firing rate

CFS category function switch; command function select; community and family support;

continuous full scan; critical failure summary

CG center of gravity; Coast Guard; commanding general; guided missile cruiser

CG(N) cruiser, guided missile (nuclear)

CGL command guard list

CGN guided missile cruiser (nuclear propulsion)

CGSE common ground support equipment

CHA craft handling area

CHAPGRU cargo handling and port group

CHBDL common high-bandwidth data link

CHD cargo handling detachment

CHE cargo handling equipment; container handling equipment

CHEM chemical

CHEX channel expansion

CHF cargo handling force

CHOBS chief observer

CHOP change of operational control; checkout procedure

CHT collection, holding, and transfer

Cl combat information; combat identification; configuration item; corrected intercept;

correlation index; critical information; counterintelligence

CIB communications information bulletin; controlled image base

CIC combat information center

CICWO combat information center watch officer

CID combat identification; component identification description; critical impulse display;

cryptologic interface device

3-27 AUG 2006

CIDC combat identification coordinator

CIEA classification, identification, and engagement area

CIF command information flow

CIFF centralized identification, friend or foe

CIG computer interface group

CIGARS console internally generated and refreshed symbols

CIJ close-in jamming

CILS carrier instrument landing system

CIN channel identification number; circuit identification number

CINTEX combined in-port tactical exercise

CIP coast-in point; critical intelligence parameter(s); class improvement plan; component

improvement program

CIRT computer incident response team

CIS close-in search; combat identification system; cooperative identification system;

communications and information systems

CISM critical incident stress management

CIT combined interrogator transponder; counterintelligence team

CIU computer interface unit; control-indicator unit; converter interface unit

CIV civilian

CIWS close-in weapon system

CL confidence level; centerline

CLASS classification

CLC command launch computer

CLCC contact under close control

CLD critical low-density

CLD/HD critical low-density/high demand

CLDS closed-loop degaussing system

CLEAR closed-loop evaluation and reporting

CLEARCERT clear certification

CLF combat logistics force; commander, landing force; comparative LOFAR fix(ing)

CLRNC clearance

CLS capsule launch(ing) system

CLSF combat logistics support force

CLT commander, landing team

CLZ craft landing zone; cushion (LCAC) landing zone

CM countermeasures

CMA civil-military affairs; contact motion analysis; corrective maintenance action

CMAS cruise missile avoidance system

CMAT consequence-management advisory team

CMC central mission computer; Commandant of the Marine Corps

CMCA cruise missile carrier aircraft

CMCC computer monitor and control console; classified material control center

CMCS communications monitoring and control system

CMDR coherent monopulse Doppler radar

CME countermeasures evaluation

CMGS cruise missile guidance system

CML canister missile launcher

CMMD cruise missile mission designator

CMO civil-military operations

CMOC civil-military operations center

CMOS cargo movement operations system(s); complementary metal-oxide semiconductor

CMOS RAM complementary metal-oxide semiconductor random access memory

CMP class maintenance plan; conversion master plan; cruise missile project; communica-

tions message processor

CMPF commander, maritime prepositioning force

CMPM combat mission planning module

CMPT consequence management planning team

3-29 AUG 2006

CMRT consequence management response team

CMS communications security material system; condition monitoring system

CMSA cruise missile support activity

CMSS collection management support system

CMST-N collection management support tool – Navy

CMT cooperative mobile target

CMTU cartridge magnetic tape unit

CMUX converter multiplexer

CMWWDS countermeasures water washdown system

CNA computer network attack

CNC central navigation computer

CND computer network defense

CNDO computer network defense operations

CNI communication-navigation-identification

CNO Chief of Naval Operations; computer network operations

CNOP counternarcotic operations

CNOR command not operationally ready

CO conscientious objection

COA course of action

COB chief of the boat; close of business

COBRA coastal battlefield reconnaissance and analysis

chain of command; current operations center

COCOM combatant commander

COD carrier onboard delivery; collect on delivery; combat operations division; correction

of deficiency

CODAG combination diesel and gas

CODAR correlation detection and recording

CODOG combination diesel or gas

COE common operating environment

COEA cost and effectiveness analysis

COF cutoff frequency

COG center of gravity; cognizance symbol

COGAG combination gas and gas

COGOG combination gas or gas

COI contact of interest; critical operational issue

COLEMP collection emphasis

COLOP collection opportunity

COLT combat observation and lasing team

COM chief of mission; character-oriented message

COMDAC command, display, and control

COMDT commandant

COMINT communications intelligence

COMJAM communications jamming

COMMCM communications countermeasures

COMMPLAN communications plan

COMMS communications

COMMSPOT communications spot report

COMPASS computer-alerted surveillance system

COMPTUEX composite training unit exercise

COMPUSEC computer security

COMREL community relations project

COMSAT communications satellite

COMSEC communications security

COMSTA communications station

COMTAC tactical communications

COMTECHREP comprehensive technical report

3-31 AUG 2006

CONAR commanding officer's narrative report

CONCAP construction capabilities contract; emergency construction capabilities contract

CONOPS concept of operations

CONPLAN concept plan; operation plan in concept format

CONREP connected replenishment

CONSCAN conical scan

CONSOL consolidation of cargo between replenishment ships

CONUS Continental United States

CONV convoy

COOP craft of opportunity

COP combat outpost; common operational picture

COPS communications planning support; current operations; computer-oriented partial

sum

COPS-II computer-oriented partial sum II

CORS composite operational reporting system

COS chief of staff; cosine; current operations section

COSAG combination steam and gas

COSAL coordinated shipboard allowance list

COSRO conical scan-on-receive-only

COT commanding officer of troops

COTP captain of the port

COTR contracting officer's technical representative

COTS cargo offload and transfer system; commercial off-the-shelf

COVEC covert vector

COWAN coalition-wide area network

CP casualty panel; casualty power; casualty procedures; change proposal; coded pulse;

command post; communications processor; computed position; computer program-

mer; concrete piercing; control point; counter proliferation

CPA chairman's program assessment; closest point of approach

CPAM CNO program analysis memorandum

CPAR closest point of approach range

CPD combat plans division; cryptograhic period designator; cumulative probability of

detection

CPDB characteristics and performance database

CPFF cost plus fixed fee

CPFG CNO policy and fiscal guidance

CPHD copperhead

CPI coastal patrol and interdiction; crash position indicator

CPIF cost plus incentive fee

CPM critical path method

CPP computer program package; controllable pitch propeller

CPPC cost plus percentage of cost

CPPS computer program performance specification

CPS controller processor signal; collective protection system

CPTRP computer program test procedures

CPU central processing unit; chemical protective undergarment; computer processing unit

CPX command post exercise

CQ carrier qualification

CQB close quarters combat

CRA command relationships agreement; coordinating review authority

CRATT covered radioteletype

CRC combat reconnaissance crew; control and reporting center; crisis response cell;

cryptologic resource coordinator; cyclic redundancy check

CRCC combined rescue coordination center

CRE control and reporting element

CREDO Chaplain's Religious Enrichment Development Operation

CRG communication reporting gate; communications relay group; cryptologic resource

group

3-33 AUG 2006

CRI collective routing indicator

CRITIC critical intelligence report

CRITICOMM critical communications

CRM cabinet resource manager; crew resource management; corrosion related magnetic

CRN contract reference number

CRO CRT readout

CROSSTAC cross tactic

CRP controllable reversible pitch; command religious program

CRPA controlled radiation pattern antenna

CRRC combat rubber raiding craft

CRT cathode ray tube; combat response team; combat rated thrust

CRTS casualty receiving and treatment ship

CRUDESGRU cruiser destroyer group

CRZ contamination-reduction zone; controlled reaction zone

CS combat system; combat support

CSA close support area; combat systems assessment; combat support area

CSABR course, speed, altitude, bearing, and range

CSAR combat search and rescue

CSAT combat system alignment test

CSBOT combat system onboard trainer

CSC combat system coordinator; computer set control; computer software component;

combat stress control

CSCC coastal sea control commander; combat system casualty control

CSD chemical-support division; civil support detachment; combat system doctrine; com-

bat system detection

CSDR combat system design requirement

CSDS command ship data system

CSE course; common support equipment; combat system engineer

CSEA combat system engineering agent

AUG 2006 3-34

CSED combat system engineering development

CSES combat system equipment space; critical safe enable switch; canister/safe/enable

switch

CSF carrier strike force

CSG carrier strike group; command signal generator; cryptologic support group

CSJ close support jamming

CSL combat stores list

CSM chemical surety material; combat system management (workstation); combat system

manager

CSMP combat system management plan; current ship's maintenance project

CSMS combat system maintenance supervisor

CSMT closely spaced multiple target; close space missile target

CSN channel sequence number

CSOI critical signal of interest

CSOT combat system operability test

CSQT combat system qualification test

CSRF common source route file

CSS central security service; combat service support; communications subsystem; coordi-

nator surface search; coastal systems station; combat system services; communica-

tions security system; contingency support study

CSSA cryptologic shore support activity

CSSD combat service support detachment

CSSE civil engineering support equipment; combat service support element; combat sys-

tem support equipment

CSSG combat service support group

CSSP Combined Services Support Program

CSSQT combat system ship qualification trial

CSTAR combat systems training and readiness

CSTOM combat system technical operations manual

CSTOT combat system team operational trainer

3-35 AUG 2006

CSTT combat system training team

CSU communications switching unit

CSV countersurveillance

CT counterterrorist

CTA command to active

CTC cargo tank cleaning; contact; counterterrorist center

CTCG coordinative track control group

CTCZ carrier tactical control zone

CTD classify track display; common tactical dataset; conductivity, temperature, depth;

central target director

CTE commander, task element

CTF commander, task force; combined task force

CTFM continuous transmission frequency modulated

CTG commander, task group

CTIMS command tactical information management system; contact information manage-

ment system; contact tactical information management system

CTO computer tasking order

CTOL conventional takeoff and landing

CTOT coordinated time on top

CTP common tactical picture; comparative test plan; continuing training plan; coordinated

test plan

CTS central track stores; control time slot; course-to-steer; communications tracking sys-

tem; current time sensing

CTSI common track stores indicator

CTSL central track stores locator; communication target signal list

CTT commander's tactical terminal

CTTG countertargeting

CTU commander task unit; contracting team unit

CTV common test vehicle

CUCV commercial utility cargo vehicle

CUDIX common user digital information exchange system

CURV cable-controlled underwater recovery vehicle

CUS course (heading)

CUU camouflaged utility uniform (Navy and Coast Guard)

CV multipurpose aircraft carrier; cardiovascular; cargo variant; carrier vessel; check

valve; community variable; crypto variable; carrier; curriculum vitae

CV-ASWM carrier antisubmarine warfare module

CVBG carrier battle group (obsolete)

CVC consecutive voyage charter

CVIC carrier intelligence center

CVN multipurpose aircraft carrier (nuclear-propulsion)

CVNS carrier navigation system

CVR cockpit voice recorder

CVRS cassette video recording system

CVT controlled variable time

CVW carrier air wing; cryptovariable weekly (GPS)

CW carrier wave; chemical warfare; continuous wave; clockwise

CWAN coalition wide area network

CWAR continuous wave acquisition radar

CWAT continuous wave acquisition and track

CWC composite warfare commander

CWDS combat weapon delivery software

CWI continuous wave illuminator

CWOSM composite warfare oceanographic support modules

CWP causeway pier

CWS control wheel steering

CWSS cold weather shelter system

CWWD chemical warfare directional detector

3-37 AUG 2006

CWX continuous wave transmitter

CZ convergence zone; combat zone

CZR convergence zone range

CZW convergence zone width

D/A detection/acquisition; digital/analog

D/E depression/elevation

D/L data link

DA density altitude; direct action; drug abuse

DAA designated approving authority

DACM defensive air combat maneuvering

DAFIF digital aeronautical flight information files

DAM deep water ASW mine; damaged

DAMP digital antenna mast program

DAO defense attaché officer

DAP defensive armed penetrator; DEMON/audio processor

DAR desired area for rescue; diopter adjustment ring

DARS daily aerial reconnaissance syndicate

DAS deep air support; defensive avionics system; direct air support

DAST disaster assessment survey team

DBDB digital bathymetric database

DBF digital beamformer; DIMUS beamformer

DC&T detection, classification, and targeting

damage control center; deployment control center

DCI display control indicator

DCM dangerous cargo manifest; defensive countermeasures; display casualty mode;

drydock continuous maintenance; defensive combat maneuvering

DCMS digital communications management system; director, COMSEC material system

DCOS deputy chief of staff

DCRS damage control repair station; digital camera receiving station

DCST Defense Logistics Agency contingency support team

DCU data conversion unit; data converter unit; debark control unit; display control unit

DD deck drain (without closure device); destroyer; diesel direct; differential Doppler; di-

rect deployment

DDC data display console; deck decompression chamber; detection data converter; digital

data converter

DDD desired delivery date; digital data distribution

DDG guided missile destroyer

DDI deceptive electronic countermeasures decoy integration; DECM/decoy integration;

digital display indicator

DDR digital data recorder; document discrepancy report

DDS data display subsystem; data distribution subsystem; data distribution system; digital

data set; digital data storage; distributed data system; dry deck shelter

DE damage expectancy; data extraction; depression angle; depression/elevation; depth

excess; diesel electric; directed energy; dissemination element; Doppler enable

DEA deceptive electronic attack; Drug Enforcement Administration

DEAD destruction of enemy air defenses

DEFCON defense readiness condition

DEGSVC degaussing services

DEMOD demodulation

DER digital electronic readout

DESRON destroyer squadron

DEST domestic emergency-support team

DF direction finding; dispersion factor; disposition form

DF analog display; digital feature analysis data

DFAMS defense fuel automated management system

DFD delayed-firing device

DFE digital filter element; digital filtering element

DFM deterrent force module; diesel fuel, marine

3-39 AUG 2006

DG diesel generator; downgrade

DGPS differential global positioning system

DGS data gathering system

DI directivity index

DIFF difference; difference frequency; differential

DIG data interface group

DISMS defense integrated subsistence management system

DISN defense information systems network

DISSUB distressed/disabled submarine

DIFAR pointing tactic

DIU data interface unit

DIV division

DIWSA digital imagery workstation afloat

DLA data link address; deck launched alert; Defense Logistics Agency; designated landing

area

DLC down-link communication; downlink call-up

DLIR downward-looking infrared

DLJ down-link jamming

DLO director lock-on

DLPP data link preprocessor

DLQ deck landing qualification

DLRP data reference point

DMAT defective material assistance team

DMB datum marker buoy

DMC defense movement coordinator

DMI destructive mutual interference

DMINS dual miniature inertial navigation system

DMP data management processor; depot modernization period; direct measurement

program

DMR digital modular radio

DMTI digital moving target indicator

DNC digital nautical chart

DNCU data net control unit

DNP dummy nose plug

DNS Doppler navigation sonar; Doppler navigation system

DOB defensive order of battle; depth of burst

DOC Department of Commerce; designed operational capability; direct operator control

DOCC deep operations coordination cell

DODAAD Department of Defense activity address directory

DOF degrees of freedom; depth of fire

DON Department of the Navy

DOOW diving officer of the watch

DOP dilution of precision; dilution of processing; designated overhaul point

DORA data operational retrieval analysis; distribution of report analysis

DOS day of supply

DOT deep ocean transponder; desert operation trailer; detection opportunity time

DOW died of wounds

DP direct path

DPC deception planning cell

DPCA displaced phase center antenna

DPM docking phased maintenance

DPO directed planning option; disaster preparedness officer

DPOSD deployed port operations, security, and defense (USCG)

DPP deliberate planning process

DPSC data processing service center

DPSK digital phase shift keying

3-41 AUG 2006

DR dead reckoning; decision range; destruct range; diesel reduction; designated overhaul

point

DRA dead reckoning analyzer

DRAM dynamic random access memory

DRB discarding rotating band; doctrine review board

DRF disaster-relief fund; disaster-response force

DRFM digital radio frequency memory

DRU dynamic reference unit

DS direct sequence; direct support; directed search; doctrine statement

DSAM defense system analysis module

DSC deep sound channel

DSCA deep sound channel axis

DSCS defense satellite communications system

DSD data sharing device; deep submergence device; digital sharing devices; dynamic situ-

ation display

DSIATP defense sensor interpretation and application training program

DSL deep scattering layer

DSMAC digital scene matching area correlation

DSN defense services network; defense switched network

DSO defensive systems officer; domestic-support operations

DSOPS direct support operations

DSP designated stock point

DSRA docking selected restricted availability

DSRS deep submergence rescue system

DSRV deep submergence rescue vehicle

DSS decision support system

DSSS direct sequence spread spectrum

DST decision support template; defense scientific technical; destructor (mine)

DSTS daily signals intelligence technical summary

AUG 2006 3-42

DSU data storage unit; digital service unit

DSV deep submerge vehicle

DTAS depressed towed array sonar

DTAV Department of Defense total asset visibility

DTC-2 second generation desktop tactical support computer

DTD data transport device; detailed troop decontamination; dip-to-dip

DTM detector tracker monitor; digital target materials; digital terrain matrix

DTRANSEDI Department of Defense transportation electronic data interchange

DTT designated test target; dynamic test target

DV Doppler vector; drain valve

DVD direct vendor delivery; direct view display

DVS Doppler velocity sensor

DWS defensive weapon subsystem; demineralized water system

DWT deadweight tonnage; demineralized water transfer system

DZ drop zone

E/L equipment list

E/I echo-to-interference ratio

EAB emergency air breathing

EAD earliest arrival date

EAF expeditionary airfield

EAM emergency action message

EAN electromechanical acoustic noisemaker

EAO electronic attack officer

EAP emergency action plan; emergency action procedures

EAS electronic altitude sensing; equivalent airspeed

EASAR enhanced and inverse synthetic aperture radars

EASOP emergency action standard operating procedures

EAT expected approach time

3-43 AUG 2006

EAW electronic assembly warhead

EBHA electronic battle hit assessment

EBS environmental baseline survey; expeditionary bomb squadron

ECA enemy capabilities analysis

ECB electronic communications buoy

ECDIS electronic chart display and information system

ECG electronic combat group; emission control gate; environment control gate; equal an-

gle coverage; exercise controller guide

ECI engineering change instruction

ECL engine condition lever

ECM electronic countermeasures

ECMU extended core memory unit

ECOA enemy course of action

ECON economical

ECT embarkation control team

ECU emitter classification unit; environmental control unit

EDA estimated date of arrival

EDAC error detection and correction

EDB emitter database

EDC engine driven compressor

EDD earliest delivery date; earliest departure date

EDI electronic data interchange

EDM effective downwind message; enhanced data mode

EDO engineering duty officer

EDOD estimated date of delivery

EDSRA extended docking selected restricted availability

EE emergency electric; engineering evaluation

EEAT emergency expected approach time

EECU engine electrical control unit

EER extended echo ranging

EEU environmental engineering unit

EFD electric firing device; engineering field division

EFF effectiveness

EFPH effective full power hours

EFR engine firing rate

EFRT emitter file recycle time

EFTO encrypt for transmission only

EFW effective fallout wind

EGL equipment guide list

EGR electrographic gram recorder

EGS electronic glideslope

EHF extremely high frequency

EIC equipment identification code; exercise intelligence center

EID electronic identification; emitter identification data

EIS environmental impact statement

EJO eject only

EKMS electronic key management system

ELBA emergency locator beacon

ELCID early limited combat identification

ELD emitter locating data

ELF extremely low frequency

ELOS extended line of sight

ELP estimated launch position

ELSF expeditionary logistics support force

ELT electronic light table; enforcement of laws and treaties

ELV expendable launch vehicle

3-45 AUG 2006

ELX electronics enclosure; emitter library index

EM electromagnetic; executive manager

EMATT expendable mobile acoustic training target; expendable mobile USW training target;

expendable mobile ASW training target

EMBO embarkation officer/order

EMCC en route movement control center

EMCON emission control

EME electromagnetic energy; electromagnetic environment

EMF expeditionary medical facility

EMI electromagnetic imaging; electromagnetic interface; electromagnetic interference

E-MIO expanded maritime interception operations

EMLOC emitter localization

EMP electromagnetic propagation; electromagnetic pulse

EMPSKED employment schedule

EMR electromagnetic radiation; execution management replanner

EMRM equipment maintenance related material

EMS electromagnetic silencing; electromagnetic spectrum; element management system;

embedded memory subsystem; embedded memory system; emergency medical ser-

vices; expeditionary maintenance squadron

EMV electromagnetic vulnerability

EMW expeditionary maneuver warfare

ENDI enhanced chaff discriminant

ENSYN electromagnetic environment synthesizer

ENT ear, nose, and throat; evening nautical twilight

EO electro-optical; end office; equal opportunity; executive order; eyes only

EOB electronic order of battle; enemy order of battle

EOC early operational capability; emergency operations center

EOCC engineering operational casualty control

EOD explosive ordnance disposal

EO-IR electro-optical-infrared

EOR end-of-run; engage on remote

EORSAT electronic intelligence ocean reconnaissance satellite

EOS electro-optical sight; enclosed operating station; engine operating station

EOSS electro-optical sensor system; engineering operational sequencing system

EOT engine order telegraph; end of tape

EOTS expanded ocean thermal structure

EPA Environmental Protection Agency; evasion plan of action

EPC electrical power center

EPE estimated position error

EPIRB emergency position indicating radio beacon

EPM emergency propulsion motor

EPMU environmental protection medical unit

EPP emergency power package

EPS embedded processing system; engagement planning supervisor

EPW enemy prisoner of war

ERAP engineering readiness assessment program

ERC elevation resolution cell; exercise-related construction; extended range cap

ERDL extended-range data link

ERG emergency recovery group

ERGM extended-range guided munitions

ERH elastomeric rotorhead

ERMAR electronic reconnaissance mission analysis report

ERO enable run offset; engine running on/offload; engineered refueling overhauls; equip-

ment repair order

ERP equipment reception point; effective radiated power

ERS emergency recovery system; engine room supervisor; emergency relocation site

ERT environmental response team; evidence response team

3-47 AUG 2006

ERTS emergency remote tracking station

ESB en route support base; engineer support battalion

ESD electrostatic discharge; exploitation support data; external sonar dome

ESDS electrostatic discharge sensitive

ESF emergency-support function; expeditionary strike force

ESG expeditionary strike group

ESI extremely sensitive information

ESJ escort jamming

ESOR emergency standoff range

ESRA extended selected restricted availability

ESS electronic system supervisor; expeditionary support squadron; explosive safety sur-

vey; external sound speed

EST emergency-support team; establishing; fuel stripping

ESTO estimated seeker turn-on

ESUS explosive signal, underwater sound

ESWL equivalent single wheel loading

ET electronic time; exercise and training

ETA estimated time of arrival

ETADS enhanced transportation automated data system

ETD estimated time of departure

ETE estimated time en route

ETI early transient incapacitation; ELINT technical information; emitter technical infor-

mation; estimated time of intercept

ETL earliest-time-to-launch; effective target length

ETP equal time point

ETR estimated time of recovery; estimated time of repair

ETS emergency throttle system; engineering technical services; engineering time standards

EUC end user computer

EUSC effective US-controlled ships

AUG 2006 3-48

EW early warning; electronic warfare

EW/TSS electronic warfare and target sensing systems

EWC electronic warfare coordinator

EWC&R electronic warfare coordination and reporting (net)

EWCAS electronic warfare in support of close air support

EWCC electronic warfare coordination cell

EWCM electronic warfare coordination module

EWCS electronic warfare control ship

EWDS electronic warfare database support

EXCM expendable countermeasures

EXER exercise

EXPL explosive

EXPLAN exercise plan

EXT exterior

EXTAC experimental tactic

EXWEP exercise weapon

EZ evacuation zone; exclusion zone

F/L force list

F/V fishing vessel

F/W fixed wing

FAC forward air controller

FAC(A) forward air controller (airborne)

FACP forward air control party; forward air control post

FACSFAC fleet area control and surveillance facility

FAD fighter air director; fleet air defense; force activity designator; force air defense;

fighter air direction

FAG forward air guide

FAIRDEX fleet air defense exercise

3-49 AUG 2006

FAMEX familiarization exercise

FAMP forward area minefield planning

FAP fast action procedures; fleet assistance program

FAR false alarm rate; federal acquisition regulation; federal aviation regulation

FARC fly-away recompression chamber

FARP forward arming and refueling point

FARRP forward arming, refueling, and resupply point

FASO fleet aviation specialized operational training group

FAST fleet acoustic silencing test; fleet air superiority training; fleet antiterrorism security

team; forward area support terminal; forward area surgical team

FASTASS fast towed array sonar system

FASWC force antisubmarine warfare commander

FAT fly-away team

FAV fast attack vehicle

FAX facsimile

FBH force beachhead

FBHL force beachhead line

FBM flat bottom; fleet ballistic missile

FBP fast patrol boat

FBT fine bearing tracker; frequency bearing time

FC field change; fire control; force coordinator; frequency compatibility; field circular;

final coordination; floating causeway; floating craft; force commander

FCCBMP fleet command center battle management program

FCE fire control element; fire control executive; forward command element

FCL fire (final) coordination line

FCLP field carrier landing practice

FCM full casualty mode

FCO Federal coordinating officer; fire control officer

FCP functional checkpilot; fire control party

AUG 2006 3-50

FCSSA force combat service support area

FCT firepower control team

FDA fixed distributed array

FDBK feedback

FDC fire direction center

FDCS flight deck communications system

FDD flight deck director

FDDS flag data display system

FDL fault detection and localization; forward area air defense data link; forward deploy-

able laboratory; fast deployment logistics

FDLL free deck launch line

FDLP flight deck landing practice

FDM figure of demerit; frequency division multiplexed

FDO fighter duty officer; flexible deterrent option; flight deck officer

FDP fighter direction post; food distribution point; frequency domain processor

FDP&E force deployment planning and execution

FDS fixed distributed system; fixed distribution system

FDSS flight deck status and display system

FDSSS flight deck status and signaling system

FDT first destination transportation

FDU file data update; fire direction unit; fire director unit

FDX full duplex

FEBA forward edge of the battle area

FEC far edge control

FED five-inch evasion device

FEP final evaluation period; fleet satellite (FLTSAT) extremely high frequency (EHF)

package

FEPOC final evaluation period operations center

FEPROM flash electrically programmable read-only memory

3-51 AUG 2006

FEZ fighter engagement zone

FF Navy fast frigate; fast frigate; flight ferry

FFDL fighter-to-fighter data link

FFE fire for effect

FFG guided missile frigate

FFL friendly frontlines

FFN fleet flash net

FFP false force presentation

FFZ free fire zone

FGLS force generation levels

FGS final governing standards

FH fleet hospital

FHP force health protection

FHSO fleet hospital support office

FIC fleet intelligence center; force identification coordinator

FICC frequency interference control center

FID force identification

FIDO force identification officer

FIK fault isolation kit

FILL fleet issue load list

FIP fleet improvement program; fleet indoctrination program; fleet introduction program

FIR finite impulse response; flight information region

FIS fleet introduction site; force information service

FISC fleet and industrial supply center

FISP fly-in support package

FIST fire support team; fleet imagery support terminal

FL full load; flight line

FLAS flight line aid station

FLC force logistics coordinator

FLCC force logistics coordination center (USMC)

FLEACT fleet activity(ies)

FLETAC fleet tactical

FLG flagship

FLICON flight quarters condition

FLIR forward-looking infrared

FLIT frequency line integration tracker

FLLS Fresnel lens landing system

FLO/FLO float-on/float-off

FLOT forward line of own troops

FLR field level repair; flight line reference; forward-looking radar

FLRP fighter link reference point

FLS forward logistic site

FLSG force logistic support group

FLSIP fleet logistics support improvement program

FLSR forward logistic site representative

FLT fleet; flight

FLTBCST fleet broadcast

FLTCINC fleet commander in chief

FLTI FRAZ long-time integration

FLTRECCE fleet reconnaissance

FLTSAT fleet satellite

FLTSATCOM fleet satellite communications

FLTTAC fleet tactical

FM force module

FMA fleet maintenance activity

FMAV fleet maintenance activity availability

3-53 AUG 2006

FMC full mission capable; field medical card

FMCAT fleet mail center augment team

FMCC force movement control center

FMCR Fleet Marine Corps Reserve

FMDD fleet maintenance diving detachment

FMECA failure modes and effects criticality analysis

FMF Fleet Marine Force

FMOCC fleet mobile operational command center

FMOP frequency modulation on pulse

FMR frequency modulated ranging

FMT frequency managed training

FMU frequency measurement unit

FO forward observer; foldout; fuel oil; fiber optic; flash override

FOB forward operating base; forward operations base; friendly order of battle

FOC full operational capability; furthest-on circle

FOD foreign object damage; figure of demerit; field operations division

FOI frequency of interest

FOM figure of merit

FON freedom of navigation

FOP furthest-on point

FOR force; field of regard

FORAC for action

FORM formation

FORWEPCON forward weapons controller

FOS follow-on sustainment; full operating status; fall of shot

FOSIF fleet ocean surveillance information facility

FOSP follow-on support package

FOT frequency of optimum transmission

AUG 2006

FOTC force over-the-horizon track coordinator

FOU fuel operating unit

FP firing point; force protection; frequency panel

FPC field press censorship; final planning conference

FPCON force protection condition

FPF final protective fire

FPO force protection officer

FPOC force protection operations center

FPPWP first preplanned waypoint

FPT full period terminations

FPU forward participating unit

FREQ frequency

FRS fleet replacement squadron

FS/DO force security/defense officer

FS/DOC force security/defense operations center

FSA field support activity

FSB fire support base; forward staging base; forward support base; forward support battalion

FSC fire support coordinator

FSCL fire support coordination line; friendly sea control lanes

FSCM fire support coordinating measure

FSCO force security operation center

FSCS fleet satellite communications system

FSE fire support element

FSG Federal supply group

FSK frequency shift key

FSN Federal stock number

FSO fire support officer; flight safety officer; foreign service officer; force security officer

(MPF operations); fleet support operations

3-55 AUG 2006

FSP full-spectrum processing

FSS fast sealift ships; fire support station; flight service station; fast swept spat

FSSG force service support group

FST forward surgical team; fleet surgical team

FSTC force surface track coordinator

FSU fire support unit

FSUWC force surface warfare commander

FT force track

FTA fast time analyzer

FTAO force tactical action officer

FTN FOTC track number

FTOW fire control technician of the watch

FTR fighter; firm track range

FTS frequency time-sharing; fleet training strategy

FTU freight terminal unit

FTX field training exercise

FU fire unit

FUSS flexible universal stowage system

FWA floating wire antenna

GAA general agency agreement

GAIL glide angle indicator light

GAM global positioning system-aided munition

GAS ground-aided seeker

GAT guidance, apportionment, and targeting

GATS general access time slots; global positioning system aided targeting system

GBS ground-based sensor; global broadcast system

GBU guided bomb unit

GCA ground-controlled approach

GCCS Global Command and Control System

GCCS-M Global Command and Control System-Maritime

GCE ground combat element (MAGTF)

GCI ground control intercept

GCU gyro control unit

GDFS graphical data fusion system

GE ground element

GEM guidance-enhanced missile

GEN generator

GENSPEC general specifications for ships of the United States Navy

GEOPLOT geographic plot

GEOREF geographic reference

GEOSAT geodesy satellite

G/F go-fasts

GFAC ground forward air controller

GFCC gunfire control computer

GFCP generic front-end communications processor

GFI ground fault interrupter

GI government issue

GIUK Greenland-Iceland-United Kingdom

GLC group logistics coordinator

GLF geolocation file

GMB ground map beacon

GMF geometric mean frequency

GMT Greenwich Mean Time; general military training

GMTR guided missile training round

GNATS general noise and tonal system

GND ground

3-57 AUG 2006

GOR general operational requirement

GOTS government off-the-shelf

GP general purpose; group

GPD gallons per day

GPETE general purpose electronic test equipment

GPM gallons per minute

GPS global positioning system

GRP group; grid reference point

GRU gridlock reference unit

GRVM guided rising vertical mine

GS ground speed

GSI glide slope indicator

GSID ground-emplaced seismic intrusion detector

GSP geographic strip plot

GT gun target

GTR government transportation request

GUCL general use (usage) consumables list

GUNEX gunnery exercise

GWOA guerilla warfare operational area

H&HS headquarters and headquarters squadron

H&I harassing and interdicting

H&S headquarters and service

HA holding area; humanitarian assistance; hull array; helicopter attack; helicopter

administrative

HAB height above bottom

HAD harbor approach defense

HAF helicopter assault force

HAFO high-altitude flyout

HAG helicopter action group

HAM horizontal attack maneuver

HAPBB hull array passive broadband

HAU heading and altitude unit; helicopter attack unit

HAZCAT hazardous material category

HAZCHEM hazardous chemicals

HAZCOM hazardous commodity

HAZMAT hazardous material

HBW horizontal beam width

HC half channel; helicopter coordinator

HCA humanitarian and civic assistance; Hummer-controlled approach

HCATM Harpoon captive air training missile

HCE helicopter control element

HCL homing control logic

HCP Harpoon control panel

HCPD high capacity point detonating

HCS helicopter combat support (Navy); helicopter control station; helicopter coordination

section; helicopter control ship

HCU hand control unit; helicopter control unit

HD harbor defense

HDC harbor defense commander; helicopter direction center

HDCC harbor defense coordination component

HDCU harbor defense command unit

HDPLX half duplex

HDPS harbor defense/port security

HDS harbor defense system

HDT high duty technique

HDTV high-definition television

3-59 AUG 2006

HDU helmet display unit

HE heavy equipment; high explosive

HEC helicopter element coordinator

HECP harbor entrance control post

HE-CVT high-explosive control variable time

HEFS helicopter emergency flotation system

HEIFER high-frequency relay

HEL high-energy laser

HELP helicopter extraction landing point

HEPA high-efficiency particulate air

HET Harpoon-embedded trainer; hostile environment training

HF high frequency

HFA high-frequency acoustic; high-frequency active

HFBB high-frequency broadband

HFDF high-frequency direction-finding

HFM hyperbolic frequency modulated

HFRB high-frequency regional broadcast

HGMS Harpoon-guided missile simulator

HICAP high-altitude combat air patrol; high capacity

HICOM high command communications network

HIDACZ high-density airspace control zone

HIE helicopter insertion extraction

HIFR helicopter in-flight refueling

HIFRAG high fragmentation

HIM high-explosive incendiary-tracer

HIMAD high-to-medium altitude air defense

HIMEZ high-altitude missile engagement zone

HIPAR high-power acquisition radar

HIPIR high-power illuminator radar

HIU high-interest units

HK handkey; hardkill

HL/L helicopter land and launch

HLA helicopter landing area

HLD homeland defense

HLH heavy-lift helicopter

HLPS heavy-lift preposition ship

HLS helicopter landing system; homeland security

HLZ helicopter landing zone

HM&E hull, mechanical and electrical

HMC&M hazardous material control and management

HMCS helmet mounted cueing system

HMIS hazardous materials information system

HNB hull narrowband

HNS host-nation support

HNVS helicopter night vision system

HOCC humanitarian operations coordination center

HOD high opening Doppler; home-on-decoy

HOE height of eye

HOJ home-on-jam

HOSS helo observation surveillance system

HOSTAC helicopter operations from ships other than aircraft carriers (U.S.N. publication)

HOT home-on-target

HOVERTAC hover tactic

HP hit probability; high pressure

HPA high power amplifier

HPG hits per gun

3-61 AUG 2006

HPU harbor patrol unit

HQ HAVE QUICK; headquarters

HR half round

HRD high-resolution detection; high-resolution display; high rate of discharge

HRGM high-resolution ground map

HRJS Heliborne Response Jamming System

HRO humanitarian relief organizations

HRPT high-resolution picture transmission

HRR high-resolution radar

HSB high-speed boat; hue, saturation, and brightness

HSD heat sensing device

HSG helicopter support group

HSL surface-ship-based helicopter

HSS health service support

HSSE health service support element

HSSO health service support officer

HSST high-speed surface target

HT homing transponder

HT/SZ height/size

HTA heavier than air

HTW helicopter threat warning

HUC helicopter unit commander

HUK hunter/killer

HULL high-usage load list

HULTEC hull-to-emitter correlation

HUMEVAC humanitarian emergency evacuation

HVA high-value asset

HVAAP high-value airborne asset protection

AUG 2006

HVAR high-velocity aircraft rocket

HVBSS helicopter visit, board, search, and seizure

HW hazardous waste

HWCIP Harpoon weapon control indicator panel

HWM high-water mark

HXBT helicopter expendable bathythermograph

HYFIX hyperbolic fix

I&L installation and logistics

I&T integration and testing

I&W indications and warning

information assurance; information attack

interarray communication

IACS integrated acoustic communications system

integrated acoustic display

IADS interior audio distribution system; integrated air defense system

IAP interarray processor

indicated airspeed

IBD inshore boat detachment

IBS integrated barcode scanner; integrated booking system

IBU inshore boat unit

IC interim change

ICAD integrated control and display system

ICADS integrated cover and deception system

integrated command (carrier) acoustic prediction system

ICD international classification of diseases

imagery and communication environment

instrument-controlled landing system

interface control officer

3-63 AUG 2006

ICP initial control point; inventory control point

intelligence collection requirement

ICRL individual component repair list

interior communications switching center

ICW intermediate care ward

ID identification

IDC interactive display controller

IDHS intelligence data handling system

IDQ indefinite delivery and quantity

IDS intrusion detection system

IDSS integrated underwater surveillance system

IDTC interdeployment training cycle

IDTS instrument data transmission system

IDZ inner defense zone

IDZC inner defense zone coordinator

IED improvised explosive device

IER information exchange requirement

IES intelligence exploitation system

IESS imagery exploitation support systems

IETM interactive electronic technical manual

IFAR item frequency analysis report

IFF identification, friend or foe

IFR in-flight refueling

IFS intermittent full scan

IFT in-flight technician

IFVG integrated fluid variator gearbox

imaging infrared; intelligence information report; initial intelligence report

ILARTS integrated launch and recovery television surveillance system

ILL illumination radar

ILS instrument landing system; integrated logistic system

ILSP integrated logistic support plan; integrated logistic support program

IM intermediate maintenance; information management

IMA intermediate maintenance activity

IMINT imagery intelligence

IML input monitor level

IMM integrated materiel management

IMN indicated Mach number

IMO International Maritime Organization; immobilized

IMOSS interim mobile oceanographic support system

IMP inventory management plan

IMSAT imagery satellite

IMU inertial measurement unit; inertial measuring unit

INC incendiary

INCSEA incident(s) at sea

IND indicator; improvised nuclear devices

INFOCON information operations condition

INFOMAT information management

INOP inoperative (equipment)

INR interference-to-noise ratio

INRINT infrared intelligence

INS Immigration and Naturalization Service; inertial navigation system; insert code

INTAC interceptor tracking and control

INTCOL intelligence collection

INU inertial navigation unit

information operations; input/output; intelligence officer; information objectives; in-

telligence oversight; international organization

3-65 AUG 2006

input/output controller

IOG inertial observer guidance

IP interface processor

IPAR improved pulse acquisition radar

IPB intelligence preparation of the battlespace

IPC initial planning conference

IPL initial program load

IQD internationally quarantinable disease

IR incident report; information rate; information requirement; infrared; intelligence re-

quirement; interference reduction

IRAAM infrared-guided, air-to-air missile

IRCCM infrared counter-countermeasures

IRCM infrared countermeasures

IRCS international radio call sign

IRDS infrared detection set

IRF Immediate Reaction Forces (NATO)

IRG intelligence readiness group

IRINT infrared intelligence

IRST infrared search and track

IRT initial response team

IRU inertial reference unit

IS initial search

IS&TW imagery screening and targeting workstation

ISB independent sideband; intermediate staging base; intermediate support base

ISO in support of

ISR identification safety range

inertial subsystem; interim supply support

ISSA inter-Service support agreement

ISV internal sound velocity

IT information technologies

ITA intermediate time averaged

ITB initial true bearing

integration time constant

ITCP initial timing control point

ITG initial terminal guidance

ITI intermediate-time integration

ITO installation transportation office; instrument takeoff

ITPL integrated target priority list

ITT interrogator/translator

ITW imminent threat warning

IUC immediate unit commander

IUW inshore undersea warfare

IUWCC inshore undersea warfare control center

IUWDET inshore undersea warfare detachment

IUWF inshore undersea warfare force

IUWG inshore undersea warfare group

IVA integrated vulnerability assessment

IVCU internal voice communications unit

IVDS independent variable depth sonar

IVIPS integrated vessel information planning and analysis system

IVSN Initial Voice Switched Network

IWC information warfare commander

IWDM intermediate water depth mine

IWG interoperability working group

IWO intelligence watch officer

IWRC independent wire rope core

3-67 AUG 2006

IWWO information warfare watch officer

J-2 intelligence directorate of a joint staff

JAAT joint air attack team

JA/ATT joint airborne and air transportability training

JACC joint airspace control center

JACE joint alternate command element

JAG Judge Advocate General

JAM jamming

JANAP Joint Army, Navy, Air Force Publication

JATC joint air traffic control

JATF joint amphibious task force

JATO jet-assisted takeoff

JAVA jamming amplitude vs azimuth

JCA jam control authority

JCIDO Joint Combat Identification Office

JCN job control number

JCS Joint Chiefs of Staff

JCU jammer control unit

JDAM joint direct attack munitions

JDF jam direction finder

JDS joint deployment system

JEL Joint Electronic Library

JEPES joint engineering planning execution system

JEZ joint engagement zone

JFACC joint force air component commander

JFC joint force commander

JFFC joint forces fires coordinator

JFL joint forward laboratory

JFLCC joint force land component commander

JFMCC joint force maritime component commander

JFUB joint facilities utilization board

JIADS joint integrated air defense system

JIATF joint interagency task force (DOD)

JIC joint intelligence center

JICC joint information coordination center

JICO joint interface control officer

JIPB joint intelligence preparation of the battlespace

JLC joint logistics commanders

JLLS joint lessons learned system

JMA joint mission area

JMBO joint military blood office

JMCIS joint maritime command information system

JMCOMS joint maritime communications system

JMET joint mission essential task

JMF joint maritime force

JMTOP joint multitactical digital information link operating procedures

JNACC joint nuclear accident coordination center

JOA joint operations area

JOCC joint operations command center

JOI jamming on intercept

JOP joint operating procedure

JOPS joint operation planning system

JPO joint petroleum office

JPP joint planning process

JRS joint reporting system

JRTOC joint rear tactical operations center

3-69 AUG 2006

J/S jamming-to-signal

JSCP joint strategic capabilities plan

JSOAC joint special operations air component

JSP joint signal processor

JSPS Joint Strategic Planning System

JSTAR joint surveillance target attack radar

JSTPS joint strategic target planning staff

JTAA joint action area

JTAGS joint tactical ground station

JTB joint transportation board

JTC joint targeting cell

JTCB joint targeting coordination board

JTF joint task force

JTMD joint theater missile defense

JTMTD joint theater missile target development

JTIDS track number

JULLS Joint Universal Lessons Learned System

JUWTF joint unconventional warfare task force

KAST Kalman automatic sequential TMA

KCMX keyset central multiplexer

LA lead agent

LAAD low-altitude air defense

LAADS low-altitude air defense system

LAAM light antiaircraft missile

LAAWC local antiair warfare coordinator (NATO)

LAC launch area coordinator

LACV lighter, air cushioned vehicle

LAD latest arrival date; local air defense; latest arrival date at port of debarkation

LAD/A low-altitude detection/acquisition

LALC local air logistic coordinator

LAMPS Light Airborne Multipurpose System (helicopter)

LANTIRN low-altitude navigation and targeting infrared for night

LARC lighter, amphibious resupply, cargo

LASH lighter aboard ship

LASWC local antisubmarine warfare commander

LAVA low-frequency acoustic vernier analyzer

LAW light assault weapon

LAWS low-altitude warning system

LBF linear beamformer

LBR laser beam rider

LBT lost beacon track

LBT-TH lost beacon track-terminal homing

LCAC landing craft air cushion

LCC amphibious command ship; land component commander; launch control center; ligh-

terage control center; link communications circuit; logistics component command

LCCS landing craft control ship

LCD liquid crystal display

LCM landing craft, mechanized; life-cycle management; laser countermeasures

LCP local control panel; launcher control panel

LCT lighterage control team

LD line of departure

LDT large diameter amidships torpedo tubes

LE linear error

LEA law enforcement agency

LED lamp element display

LEDET law enforcement detachment (USCG)

3-71 AUG 2006

LEO law enforcement operations

LEP linear error probable

LERTCON alert condition

LEU law enforcement unit

LEWDD lightweight early warning detection device

LF low frequency

LF(A) low frequency (acoustic)

LFAA low-frequency active acoustic

LFAIR low-frequency active intercept receiver

LFBL low-frequency bottom loss

LFBP landing force beach party

LFCP landing force command post

LFR low-flyer range

LFS landing force supplies

LFSP landing force support party

LGM laser-guided munition

LHA amphibious assault ship (general purpose); amphibious assault ship (multipurpose);

landing helicopter assault

LHC logistics head coordinator; logistic helicopter coordinator; left-hand circular; local

harbor commander

L-hour landing hour

LI/LO lock-in/lock-out

LKA attack cargo ship

LLLGB low-level laser-guided bomb

LLLTV low-light level television

LLOA limiting lines of approach

LLR low-level radiation

LLSQA limiting lines of submerged quiet approach

LLTV low-light television

LMBB LANT maritime broadcast band

LMCC logistics movement coordination center

LMO launch management order

LMS local monitoring station

Link 11 monitor system

LN noise level

LNG liquid natural gas

LNO liaison officer

LO low observable

LO/LI lock-out/lock-in

LO/LO lift-on/lift-off

LO/RO lift-on/roll-off

LOA limit of advance; light-off assessment

LOC lines of communications; logistics operation center

LOD light-off detector

LOG logistics

LOGCONOPS logistic concept of operations

LOGHELO logistics helicopter

LOGO logistics orders

LOGREP logistics replenishment

LOGREQ logistics request

LOI letter of instruction

LOP line of position; letter of promulgation

LOR level of repair; likely operational range

LORA level of repair analysis

LOS line of sight

LOSS large object salvage system

LPA log periodic antenna; low profile antenna

3-73 AUG 2006

LPD amphibious transport dock; low probability of detection

LPH amphibious assault ship; landing platform helicopter

LPI low probability of intercept

LPI/D low probability of intercept/detection

LPOC last port of call

LRASS launch random access storage set

LRAW long-range air warfare

LRCB long-range clutter blanking

LRCU long-range callup

LRE launch-and-recovery element

LRF/D laser range finder/designator

LRI limited range intercept

LRO launch and recovery officer

LRS&T long-range surveillance and tracking

LRSU long-range surveillance unit

LS source level; landing site

LSA logistic sustainability analysis; logic state analyzer

LSB logistic support base

LSC logistic support center

LSD landing ship dock; least significant digit

LSE landing signal enlisted; logistic support element

LSG logistic support group

LSMP logistic support mobilization plan

LSO landing safety officer; landing signal officer

LSR laser; logistics support requirement

LSSC light SEAL (sea-air-land) support craft

LST landing ship, tank; laser spot tracker; tank landing ship

LSV logistics support vessel; local sound velocity

LT large tug; local terminal; long ton

LTA long-term averaging; long-time average

LTE launch time earliest

LTEF launch time earliest feasible

LTG local tactical grid

LTI limited technical inspection; long-time integration

LTL latest time to launch

LTN local track number

LTP line throwing projectile; launch time preferred

LTQ local track quality

LTV land transport vehicle

LUF lowest usable frequency

LV launcher vehicle

LVC low visible craft

LVS logistics vehicle system

LWCMS lightweight company mortar system

LZ landing zone

LZCO landing zone control officer

LZCP landing zone control party

LZT local zone time

M3 missile mission matching

M/C mission commander

M/S minesweeping

M/TDDS mission/tactical data distribution system

M/V merchant vessel

MA motor alternators; mine avoidance; mortuary affairs

MAC major area commander; minimum altitude capable

MACA military assistance to civil authorities

3-75 AUG 2006

MACCS Marine air command and control system

MACG Marine air control group

MAD magnetic anomaly detection

MADMAN magnetic anomaly detector contact

MADR maximum alerted detection range

MAE medium-altitude endurance

MAFC Marine air-ground task force (MAGTF) all-source fusion center

MAG Marine aircraft group

MAGIS Marine air-ground intelligence system

MAGTF Marine air-ground task force

MAGTF ACE Marine air-ground task force aviation combat element

MAINT maintenance

MAIS maintenance information system

MAL mine actuation level

MALS Marine aviation logistics squadron

MAM maintenance assistance module

MAN military aviation notice

MANPAD man-portable air defense

MAP Medical Augmentation Program

MARAV master agreement for repair and alterations of vessels

MARDEZ maritime defense zone

MARDIV Marine division

MARFOR Marine Corps forces

MARLO Marine liaison officer; maritime liaison office

MAROP marine operators

MARREP maritime report

MAS maritime air superiority

MASCAL mass casualty

AUG 2006 3-76

MASF mobile aeromedical staging facility

MASS Marine air support squadron

MAT medical analysis tool; mine assembly team; maintenance augmentation team

MATA military air transportation agreement

MATCALS Marine air traffic control and landing system

MATCONOFF materiel control officer

MATE manual adaptive target motion analysis (TMA) evaluator

MATT mobile air transport teams

MAU Marine amphibious unit; maintenance augmenting unit

MAW Marine aircraft wing

MAX maximum

MC mission commander

MC&E mission control and evaluation

MCA movement control agency

MCAC multimission craft air cushion

MCB mobile construction battalion

MCC Marine component commander; maritime component commander; master control

center; military cooperation committee; military coordinating committee; mission

control center; mobility control center; movement control center

MCD manipulative communications deception; mobile communications detachment

MCDP Marine Corps doctrinal publication

MCDS modular cargo delivery system

MCE mission control element; movement control element

MCG midcourse command guidance

MCIA Marine Corps intelligence activity

MCL maximum climb thrust

MCLLS Marine Corps lessons learned system

MCM mine countermeasures; missile control module

MCMRON mine countermeasures squadron

3-77 AUG 2006

MCO movement control officer

MCRP Marine Corps reference publication

MCS mine countermeasures support

MCW minimal care ward

MD mean absolute deviation

MDA maritime domain awareness; mine danger area

MDC missile direction center

MDD multipurpose data display

MDP military deception planner

MDR medium data rate; mean detection range

MDS message dissemination subsystem; mission design series; maintenance data system;

mission distribution system

MDSD mobile diving and salvage detachment

MDSS MAGTF deployment support system

MDU mission data update

MDZ maritime defense zone; missile danger zone

MEA maintenance engineering analysis; munitions effectiveness assessment

MEB Marine expeditionary brigade

MEC medium endurance cutter; main evaluation center

MED manipulative electronic deception; medical

MEDLOG medical logistics

MEDLOGS medical logistics system

MEDREG medical regulating

MEE mission essential equipment

MEPES medical planning and execution system

MER multiple ejection rack

MERCO merchant ship movement and control reporting system; merchant ship control

MEREP merchant ship report (arrival/departure summary)

MERSHIPS merchant ships

MES medical equipment sets

MESS maximum effective sonar speed

MET multinational force commander

MEU Marine expeditionary unit

MEU(SOC) Marine expeditionary unit (special operations capable)

MEZ missile engagement zone

MF medium frequency; mobile facility; multifrequency

MFA medium-frequency acoustic

MFACC multinational force air component commander

MFC missile fire control

M-FLAD multiflexible analysis and display

MFP mission folder package

MFPF minefield planning folder

MFR memorandum for the record

MGB medium girder bridge

MGMT management

MGR manager

MHN moving haven

MHQ maritime headquarters

MHRS magnetic heading reference system

MIA missing in action

MIC materiel identification and control; maritime interception commander

MIF missile in-flight

MIFC maritime intelligence fusion center

MIG metal-inert gas

MIJI meaconing, interference, jamming, and intrusion

MIL magnetic indicator loop

3-79 AUG 2006

MILC mine-like contact

MILCOM military communications

MILDEC military deception

MILOGS Marine integrated logistics system

MILOPS military operations

MILSATCOM military satellite communications

MILSBILLS military standard billing system

MILSPEC military specifications

MILSTAMP military standard transportation and movement procedure

MILSTEP military standard supply and transportation evaluation procedure

MILSTRAP military standard transaction reporting and accounting procedure

MIMMS marine integrated maintenance management system

MIN-RAD minimum radiation

MIO maritime interception operations; maritime interdiction operation

MIOC maritime intercept operations commander

MIPR military interdepartmental purchase request

MIPS million instructions per second

MIS missile identification system

MIST multiple input sensor terminal

MITAC map interpretation and terrain analysis course

MIWC mine warfare commander

MIZ marginal ice zone

ML mixed layer

MLA missile launch assembly

MLB mobile logistics support base

MLD mixed layer depth

MLE maritime law enforcement; maximum likelihood estimation; maritime law

enforcement

ML-N management list-Navy

MLO material liaison office

MLSF mobile logistic support force

MLSG mobile logistic support group

MLSR missing, lost, stolen, or recovered (government property report)

MLW mean low water

MIWC mine warfare coordinator

MM multinational manual

MMA moored mine avoidance

MMART mobile medical augmentation readiness team

MMD mission media device

MME manual modified entries

MMF multinational maritime force; mobile maintenence facility

MMFC multinational maritime force commander

MML master mission library

MMOP multinational maritime operation

MMP missile monitor power

MMS mission management system; marine mammal system

MMSD mass memory storage device

MMU memory module unit

MN Mach number

MNL minimum noise level

MNLC multinational logistic commander

MNMF multinational maritime force

MNS mine neutralization system

MNT manual new threat

MOA military operations area; memorandum of agreement

MOBOARD maneuvering board

3-81 AUG 2006

MOD modification

MODE transportation mode

MODLOC modified location

MODORD modified order

MAD operational effectiveness

MOMAD mobile mine assembly detachment

MOMAG mobile mine assembly group

MOMAU mobile mine assembly unit

MOPP mission-oriented protective posture

MOS military occupational specialty

MOSS mobile submarine simulator

MOT middle of target

MOVLAS manually operating visual landing aid system

MOVORD movement order

MP mission package

MPA maritime patrol aircraft; mission and payload assessment; mission planning agent

MPC multipurpose console

MPDS message processing data system; message processing distribution system (shipboard)

MPE/S maritime prepositioned equipment and supplies

MPF maritime prepositioning force

MPFIO maritime prepositioning force independent operation

MPFM maritime prepositioning force module

MPI mission planning instructions

MPMF multipulse multifrequency

MPN memory process number

MPR maritime patrol and reconnaissance

MPS maritime prepositioning ships; main propulsion system

MPSRON maritime prepositioning ships squadron

AUG 2006 3-82

MPUAS medical personnel unit augmentation system

MRA maximum response axis

MRAAW medium-range antiair warfare

MRASM medium-range air-to-surface missile

MRAW medium-range air warfare

MRB master reference buoy

MRC major regional conflict

MRCC movement report control center

MRCM medium-range cruise missiles

MRE meals, ready to eat

MRF mobile riverine force

MRIL master repairables index listing

MRL maritime rear link

MRLS multiple rocket launcher system

MRMS maintenance resource management system

MRN medical regulating net

MRNG minimum range

MRO movement report officer

MRP maintenance of real property

MRR minimum-risk route

MRS maximum range search; medical regulating system

MRT military rated thrust

MRU minimum replacement unit

MS master station

MSC movement report

MSD material support date; mine search detachment

MSE mission support element; mobile subscriber equipment

MSFZ missile seeker zone of fire

3-83 AUG 2006

MSG mobile support group

MSK minimum shift keying

MSL modified surf limit; mean sea level

MSN memory sequence number; message serial number

MSO master station operator

MSOC medical support operations center

MSOS mass storage operating system

MSP multistatic processor; mobile sensor platform

MSPF maritime special purpose force

MSR main supply route; mission support request

MSS mission support system; minehunting sonar set

MSSG MEU service support group

MST mobile support team; Marine expeditionary force (MEF) weather support team; mis-

sion support team; maintenance support team

MSU mine search unit

MTA manual track association

MTB maintenance of true bearing

MTBO mean time between overhaul

MTF main track file

MTL master training list

MTMC military traffic management command

MTMTS Military Traffic Management and Terminal Service

MTN multi-tactical data link network

MTO message to observer; maritime tasking order; mission type order

MTOT missile time on target; mean time on target

MTR motor; minimum tracking range; mandatory turn-in repairable

MTST maneuvering target statistical tracker

MTT magnetic tape transport; maritime target track; mobile training team

MTTR mean time to repair

MTU magnetic tape unit; mobile test unit

MTV moving target video; marginal terrain vehicle

MUSE mobile utilities support equipment

MUX multiplex

MV merchant vessel; motor vessel

MVAR magnetic variation

MVI mission verification index

MW mine warfare

MWB motor whaleboat

MWP mine warfare pilot

MWSG Marine wing support group

MXA mobile exercise area

N4 logistics staff officer

NAC normal approach course

NADEP naval aircraft depot

NAESU naval aviation electronics service unit; naval aviation engineering service unit

NAF naval air facility; nonappropriated funds; numbered air force

NALC naval ammunition logistic code; naval ammunition logistics code

NALE naval and amphibious liaison element

NALO Navy air logistics office

NALSS naval advanced logistic support site

NAMP naval aviation maintenance program

NAMTO Navy material transportation office

NAOMIS Navy Material Transportation Office Operations Management Information System

NAP Navy all-purpose (Nozzle); naval aviation plan

NAR no action required

NARAD naval research and development

3-85 AUG 2006

NAS naval air station

NATCO Navy air traffic coordinating officer

NATDS Navy automated transportation data system

NATEC Naval Air Technical Data and Engineering Service Command

NATIS naval air training information

NATOPS naval air training and operating procedures standardization

NAU noise augmentation unit

NAV navigation; navigational; navigator

NAVAID navigation aid

NAVAVNDEPOT naval aviation depot

NAVBEACHGRU naval beach group

NAVCALS naval communication area local station

NAVCAMS naval communications area master station

NAVCERT navigation certification

NAVCIRT naval computer incident response team

NAVCM navigation countermeasures

NAVCOMMAREA naval communications area

NAVCOMMFAC naval communications facility

NAVCOMMU naval communications unit

NAVCOMSTA naval communications station

NAVEX navigation exercise

NAVFAC Naval Facilities Engineering Command; naval facility

NAVFLIR Naval aircraft flight record; navigation forward looking infrared

NAVFOR Navy forces

NAVICP naval inventory control point

NAVMC Navy/Marine departmental publication

NAVMEDLOGCOM Navy Medical Logistical Command

NAVNET navigation network

AUG 2006 3-86

NAVOSH Navy occupational safety and health

NAVPLOT navigation plot

NAVPTO Navy passenger transportation office

NAVSAT navigation satellite

NAVSEACARCOR Navy sea cargo coordinator

NAVSPECWAR naval special warfare

NAVSTA naval station

NAVSTAR navigation system using timing and range

NAVSUP naval supply; Naval Supply Systems Command

NAVTEX navigation information telex

NB narrowband

NBC nuclear, biological, and chemical; nonbattle casualty

NBG naval beach group

NBSV narrowband secure voice

NCA National Command Authorities

NCAGS naval cooperation and guidance for shipping

NCAP night combat air patrol

NCAPS Naval control and protection of shipping

NCASW network-centric antisubmarine warfare

NCB net control block; naval construction brigade; noncompliant boarding

NCC naval component commander; Navy component command; network control center;

North American Aerospace Defense Command (NORAD) Command Center

NCCS Navy command and control system

NCCSA Navy command and control system ashore

NCEA noncombat expenditure allocation

NCF naval construction force

NCFSU naval construction force support unit

NCHB Navy cargo handling battalion

3-87 AUG 2006

NCHF Navy cargo handling force

NCMP Navy capabilities and mobilization plan

NCO network centric operations; noncombat operations; noncommissioned officer; net

control officer

NCR naval construction regiment

NCS Naval communications station

NCSO naval control of shipping office

NCSORG naval control of shipping organization

NCT net cycle time

NCTAMS naval computer and telecommunications area master station

NCTR noncooperative target recognition (USMC)

NCTS naval computer and telecommunications station

NCW naval coastal warfare

NCWA naval coastal warfare area

NCWC naval coastal warfare commander

NCWGRU naval coastal warfare group

NDB nondirectional bearing; nuclear depth bomb

NDP naval doctrine publication

NEAT naval embarked advisory team

NEC naval exercise coordinator

NELSF naval expeditionary logistic support force

NEMVAC noncombatant emergency and evacuation plan

NEO noncombatant evacuation operation

NERF naval emitter reference file

NET network

NEU neutral

NEURS Navy energy usage reporting system

NEW naval expeditionary warfare; net explosive weight

NEWCON new construction

NFA no-fire area

NFAF Naval Fleet Auxiliary Force

NFCS Navy field contracting system

NFE no further entries; not fully equipped

NFL no-fire line

NFLIR navigation forward-looking infrared

NFLS naval forward logistic site

NFM figure of merit

NFO naval flight officer

NFZ no-fly zone; nonfiring zone

NGF naval gun fire

NGFEX naval gunfire exercise

NGFO naval gunfire officer

NGFS naval gunfire support

NGLO naval gunfire liaison officer

NGLT naval gunfire liaison team

NGO nongovernmental organization

NGSC naval gunnery strike coordinator

NIB not-to-interfere basis

NIIN national item identification number

NIIP Navy instructional input program

NILO naval intelligence liaison officer

NIMSR nonconsumable item materiel support request

NIP notice of intelligence potential

NIPRNET non-secure internet protocol router network

NIS noninterest signal

NIST national intelligence support team

3-89 AUG 2006

NIU navigation interface unit

NIXIE towed electromagnetic broadband noisemaker

NKP navigation keyboard printer

NL noise level

NLGC noise-limiting gain control

NLLDB Navy lessons learned database

NLLS Navy lessons learned system

NLT nonlethal technology; not later than

NMC not mission capable

NMCB naval mobile construction battalion

NMCS nonmission capable supply

NMEF naval mine engineering facility

NMET Navy mission-essential task

NMETL Navy mission-essential task list

NMPS naval mobilization processing sites

NMR no maintenance requirement

NNPI nuclear propulsion plant information

NNPS nuclear propulsion plant space

NOACT Navy overseas air cargo terminal

NOB Naval order of battle

NOC network operations center

NODLR NOD-long range

NOI notice of intention

NOMBO nonmine bottom object

NOME nonmine mine-like echo

NONUM notional number

NOP navigation operating procedure

NOPF naval ocean processing facility

NOR not operationally ready

NORATS Navy operational radio and telephone switchboard

NORDO no radio; no-radio aircraft

NORM Navigation Organization and Regulations Manual

NORS not operationally ready supply

NOS network operating system; normal operating state; night observation system

NOTAM notice to airmen

NOTMAR notice to mariners

NOTS near-surface ocean thermal structure

NPE Navy preliminary evaluation

NPLG night plane landing guard

NPNF no point no fire

NPT nonparticipant

NRC National Response Center; nonunit-related cargo

NRCEP naval reserve contingency engineering program

NRCHB naval reserve cargo handling battalion

NRCHTB naval reserve cargo handling training battalion

NRD recognition differential

NRDT true recognition differential

NRECCO long-range airborne search unit, night

NRFI not ready for issue

NROSS Navy remote ocean sensing system

NRPF naval regional processing facility

NRS nominal receiving sensitivity

NRT normal rated thrust

NRTI near real-time intelligence

NRZ no-radiate zone

NRZP no-radiate zone profiles

3-91 AUG 2006

NSA naval support activity

NSD naval supply depot; national sensor data; nonself-destruct

NSDA non self-deployable aircraft

NSE national support element; Navy support element; naval support element

NSF naval surface fire; naval support facility

NSFS naval surface fire support

NSIU navigation switching interface unit

NSL no-strike list

NSMP Navy support and mobilization plan

NSN national stock number

NSNS Navy satellite navigation system

NSOF Navy status of forces

NSP NCAGS shipping point

NSSB Navy supply support battalion

NSSC near-surface sound channel

NSSF naval submarine support facility

NSTM Naval Ships Technical Manual

NSW naval special warfare

NSWG naval special warfare group

NSWTG naval special warfare task group

NSWTU naval special warfare task unit

NTACS Navy tactical air control system

NTCS-A Navy Tactical Command System Afloat

NTDC non-tactical data collection

NTDS naval tactical data system

NTF new track file

NTS naval telecommunication system; night targeting system

NTSB National Transportation Safety Board

NTSS national time-sensitive data system

NTTP Navy tactics, techniques, and procedures

NTU new threat upgrade

NUFEA Navy unique fleet essential aircraft

NUSUM nuclear detonation summary

NUWEDS nuclear weapons emergency destruct system

NVD night vision device

NVG night vision goggle

NVM noise and vibration monitor

NVMS noise and vibration monitoring subsystem

NVP night vision periscope

NVR naval vessel register

NWB normal wideband

NWEL Navy Warfare Electronic Library

NWL naval weapons laboratory; Navy Warfare Library

NWP naval warfare publication; numerical weather prediction

NWPL naval warfare publication library

NWS naval weapons station

NWTDB Navy warfare tactical database

O&M operation and maintenance

O&MN operations and maintenance, Navy (funding)

O/M oceanography/meteorology

O/S over-the-side

O/T omni track

OA objective area; operating assembly; operational area; operations aerology shipboard

METOC division

OAB outer air boundary; outer air battle

OAD operational availability date: optimum approach course

3-93 AUG 2006

OAG operations advisory group

OAP off-axis penalty; offset aimpoint

OAR ORDALT accomplishment requirement

OARS ocean area reconnaissance satellite

OAS offensive air support; Organization of American States

OASIS ocean all-source information system

OAT outside air temperature

OBA oxygen breathing apparatus

OBE overtaken by events

OBFS offshore bulk fuel system

OBP onboard processor

OBT onboard trainer

OCA offensive counterair; operational control authority

OCCA Ocean Cargo Clearance Authority

OCE officer conducting the exercise

OCO offload control officer

OCR operational change report

OCU offload control unit

OD optical density

O-Day offload day

ODD offboard deception device

ODO operations duty officer

ODR observed detection range

ODT omni-directional transmission

ODZ outer defense zone

OEBGD overseas environmental baseline guidance document

OEG operations evaluation group; operational exposure guidance

OEO officers' eyes only

OF/WST operational flight/weapons system trainer

OFA order for assignment; ocean frontal analysis

OFE ordered for engagement

OFFSHR offshore (followed by geographic location indicated)

OFT operational flight trainer

OG operational guide

OGE out-of-ground effect

OH operational handbook

OIC officer in charge

OICC officer-in-charge of construction

OL operational library; on-line

OLF outlaying field

OLM ordnance logistics management

OLS optical landing system; operational linescan system; on-line sizing

OMA operational (organizational) maintenance activity

OMC one-man control

OMD operations maintenance department

OMEGA long-range navigational system

OMFTS operational maneuver from the sea

OMMS organizational maintenance management system

OMNI omnidirectional

OOA out of action; out of area

OOB order of battle

OOC out of commission

OOD officer of the deck; officer of the day

OOS out of service

OP observation position; observation post; operational publication (USN); ordnance

pamphlet; ordnance publication; overpressure charges

3-95 AUG 2006

OPAREA operating area

OPCEN operations center (USCG)

OPCOM operational command

OPCON operational control

OPCONCEN operational control center

OPDEC operational deception

OPDIR operational directive

OPDS offshore petroleum discharge system (Navy)

OPDS/IPDS offshore/inshore petroleum distribution systems

OPELINT operational electronic intelligence

OPEVAL operational evaluation

OPFOR opposing force; opposition force

OPG operations planning group

OPGEN operational general; general operations message; operation general matter

OPINTEL operational intelligence

OPLAN operation plan; operational plan

OPN other procurement, Navy (funding)

OPNOTE operation note; operational notice

OPORD operation order; operational order

OPORPL oppose(d) replenishment

OPOSENT oppose(d) entry

OPP offload preparation party

OPPE operational propulsion plant examination

OPR office of primary responsibility

OPREP operational report

OPS operations

OPSEC operations security

OPSTAT operational status (message format)

AUG 2006 3-96

OPSUM operations summary

OPTAR operating target

OPTASK operation task; operation task (message); operational tasking

OPTASK AMPHIB operational tasking amphibious

OPTASKLINK operational tasking data link

OPTEMPO operating tempo; operational tempo

OPTINT optical intelligence

OR operational requirement; operating room

ORBAT order of battle

ORD ordnance

ORDALT ordnance alteration

ORDCAL ordnance calibration

ORDN ordnance

ORD REV ordnance procedures review

ORDSER ordnance support element review

ORE operational readiness evaluation; officer responsible for the exercise

ORESTES intrabattle group tactical HF circuit

ORI operational readiness inspection

ORM operational risk management

ORP ocean reception point

ORS offensive radar set

ORSE operational reactor safeguard exams

ORT operational readiness test

OSA operational support aircraft

on-scene commander; operational support command; operations support center

OSE on-scene endurance

OSG operational swimmer group

OSI open system interconnection; operating space item

3-97 AUG 2006

OSID offshore infrastructure defense

OSINT open-source intelligence

OSIS ocean surveillance information system

OSMOSS own ship motion simulation system

OSMP ocean surveillance master plan

OSP ocean surveillance product

OSR optimum sonar routing

OSS ocean surveillance system; operations support system; optical sighting system

OST operational support team

OSV ocean station vessel

OT operational test; operational testing; observer target; operational test

OT&E operational test and evaluation

OTAl over-the-air initialization

OTAR over-the-air rekey

OTAT over-the-air transmission; over-the-air transfer

OTB observer target bearing

OTC officer in tactical command; over the counter

OTCIXS officer in tactical command information exchange system

OTF one-time-correlated track file

OTG operations and tactics guide

OTH other; over the horizon

OTHT over-the-horizon targeting

OTL observer target line; operational test launch

OTO operator-to-operator

OTP one-time pad

OTPI on-top position indicator

OTS over the shoulder

OTSR optimum track shipping

OTST over-the-side torpedo

OUB OPDS utility boat

OUT onboard trainer

P&E planning and estimating

P3 compressor discharge pressure

P3I preplanned product improvement

P/C pleasure craft

P/D periscope depth

P/M/C passengers/mail/cargo

P/N part number

P/S port/starboard

P/U participating unit

PA public affairs; pulse amplitude

PAC preaction calibration; passive acoustic classification

PACE passive acoustic communication equipment

PACQ probability of acquisition

PACQA probability of acquisition actual

PADC passive acoustic detection and classification

PAIR performance and integration retrofit

PALS positioning and locating system; precision approach landing system

PALT procurement administrative lead time

PAO public affairs office; public affairs officer

PAPL passive acoustic propagation loss

PAR precision approach radar; pulsed acquisition radar

PARENTSQ parent squadron base

PASEP passed separately

PATRIOT phased array tracking radar intercept on target

PATRON patrol squadron (Navy)

3-99 AUG 2006

PAVG average output power

PAX passenger(s); public affairs plans; transfer of personnel

PB particle beam; patrol boat; President's budget

PBB passive bottom bounce; passive broadband

PBC practice bomb container

PBRT priority band recycle time

PBT phase bearing tracker

PC personal computer; patrol coastal; patrol craft

PCA positive control airspace

PCD precision course director

PCM pulse code modulation

PCO primary control officer

PCP penetration control point

PCS permanent change of station; portable control station; position, course, and speed;

primary control ship

PCSP peculiar contingency support package

PCU power converter unit

PCW pulsed continuous wave

PD periscope depth; program directive; probability of damage; pulse duration; priority

designator

Pd detection probability; probability of detection

PD/D point detonating/delay

PDA personal digital assistant; periscope depth attack

PDC Practice depth charge; processing display channel

PDF processed directional transmission; point detonating fuze; principal direction of fire

PDIT preflight data insertion tape

PDM pulse duration modulation

PDPC post-detection pulse compression

PDR precision data recorder; predicted detection range; periscope depth range

AUG 2006 3-100

PDS passive detection system

PDT processed directional transmission; pulse Doppler tracking

PDTC professional development and training conference

PDTW professional development and training workshop

PDU protocol data unit; power distribution unit

PDW personal defense weapon

PE peace enforcement; peacetime establishment; personal effects; program element

PEC program element code

PEE pressure environmental equipment

PEETE portable electrical (electronic) test equipment requirements list

PEH probable error in height of burst

PEL preferred evasion locale

PEM priority engage missile; program element monitor

PEO peace enforcement operation(s); program executive office

PEP peak envelope power

PERA planning and engineering for repairs and alterations

PERSTEMPO personnel tempo

PEZ patriot engagement zone

PFD personal flotation device

PFE post fire evaluation

PFID positive friendly identification

PFLOLS portable Fresnel-lens optical landing system

PFM pulse frequency modulation

PFOM passive figure of merit

PFPS portable flight planning system

PG patrol gunboat

PGC programmable gain control

PGG pulse group generation

3-101 AUG 2006

PGM precision-guided munitions

PGSE peculiar ground support equipment

PH probability of a hit

PHIBCB amphibious construction battalion

PHIBGRU amphibious group

PHIBLEX amphibious exercise

PHIBOP amphibious operation

PHIBRON amphibious squadron

PHID positive hostile identification

PHIT probability of hit

PHITAR predesignated high-interest tactical area

PHM patrol combatant (hydrofoil)

PHOTEX day photographic exercise

PHOTINT photographic intelligence

PHP predicted hit point

PHST packaging, handling, storage, and transportation

PI/DE passive identification/direction equipment

PIA planned incremental availability

PIC parachute insertion capable

PICA primary inventory control activity

PID positive identification

PIF personal identification feature

PIM position and intended movement; point of intended movement; plan of intended

movement

PINS precise integrated navigation system

PIO pilot-induced oscillation

PIP predicted intercept point

PIR priority intelligence requirement

PIRAZ positive identification radar advisory zone

PIREP pilot report

PIRID passive infrared intrusion detector

PIRR prepositioned war reserve interrogation and readiness reporting (system)

PIW person in (the) water

PIZ permanent ice zone

PK position keeping; probability of kill; peacekeeping

PKG-POL packaged petroleum, oils, and lubricants

PKI public key infrastructure

PKM patrol killer medium

PKO peacekeeping operations

PKP purple k powder

PKSS single shot probability of kill

PL phase line; propagation loss; pulse length

PLA plain language address

PLAD plain language address designator

PLANEX planning exercise

PLE prudent limit of endurance

PLI position location information

PLP preferred launch position

PLRS position location reporting system

PLS personal locator system

PM phase modulation; preventive maintenance; program manager; performance moni-

toring; phase modulation; preventive maintenance

PMA phased maintenance availability

PMC partial mission capable; passenger/mail/cargo

PMCC passengers/mail/cargo coordinator

PMCS partial mission capable supply

3-103 AUG 2006

PME professional military education; performance measuring equipment

PMG permanent magnetic generator

PMI passive mode inhibit; patient movement items; prevention of mutual interference;

primary movement items

PMIDB photo miniaturized intelligence database

PML program manager, logistics; personal marker light

PMOR process measures of readiness system

PMP parallel motion protractor

PMR postmission reports; planned maintenance requirement

PMS planned maintenance system; preventive maintenance system

PNB precise navigation buoy

PNS precise navigation system

PO peace operations

POA&M plan of action and milestones

POB persons on board; psychological operations battalion

POC point of contact

POCG port operations control group (USMC)

POD plan of the day; port of debarkation; probability of detection; print on demand

POE port of embarkation; port of entry; planned operational environment; projected opera-

tional environment

POF point of fire

POG port operations group

POI probability of intercept

POIC petty officer in charge

POL petroleum, oil(s), and lubricants

POM program objective memorandum

POMCUS prepositioning of materiel configured to unit sets

POMI plans, operations, and medical intelligence officer

POMSO Plans, Operations, and Military Support Office(r) (NG)

AUG 2006 3-104

POP performance-oriented packaging; port opening package

POS primary operating stock(s); peacetime operating stocks; port of support; position;

probability of success

POSSNV possible nonvehicle

POSSUB possible submarine

POTS plain old telephone system

POW prisoner of war

PP&O plans, policies, and operations

PPC power projection cell

PPD pounds per day

PPI plan position indicator

PPL protocol processing unit

PPR preplanned response

PPS precise positioning system; pulses per second

PPV public-private venture

PQS personnel qualification standards

PR personnel recovery

PRA primary review authority; probability of raid annihilation

PRC port readiness committee

PRECOM precommissioning

PRI pulse repetition interval

PRI AMP primary amplification

PRIDET primary detection

PRIFLY primary flight control

PRI ID primary identification

PRIME plastics removal in the marine environment

PRI-PBB primary passive broadband

PRISS primary ship to shore

3-105 AUG 2006

PRITAC primary tactical; primary tactical frequency

PRN pseudo-random noise

PRO plotting room officer

PROBSUB probable submarine

PROC processor

PROP propeller

PROPLOSS propagation loss

PRP personnel reliability program

PRS provide repair service

PRTS precedence request time slots

Ps excess power

PS port security

PSA port support activity; post shakedown

PSC personnel services company; port security company (MTMC); principal subordinate

command

PSD projectile seating distance

PSDG projectile seating distance gauge

PSE proximity sensing element; prevention of stripping equipment

PSHD port security and harbor defense

PSHDGRU port security and harbor defense group

PSICP program support inventory control point

PSK phase shift keying

PSLT pressurized sonobuoy launch tube

PSP portable sensor platform; physical security plan

PSPC passive sonobuoy pattern computation; personnel support company

PSR propeller shaft rate; predicted sonar range

PSS point of safe return; presearch skim

PSSS pre-search sea-skim mode

PST primary search tone; primary search tonal; precision strike Tomahawk

PSU power supply unit

PSYOP psychological operations

PT patrol torpedo

PTA planned time of arrival; proposed technical approaches

PTC personnel transfer capsule; predictive threshold control

PTDS post-tune-drift-stabilization

PTF patrol torpedo, fast

PTG priority track gate

PTL prioritized target list

PTM personnel transport module

PTOI primary target of interest

PTP point-to-point

PTU power transfer unit

PU participating unit

PUCR programmable underwater communications receiver

PUK pack-up kit

PUP pull-up point

PVC pressure vent control

PVCS protected voice communication systems

PVO private voluntary organizations

PVR port visit report; pump vane rate

PVSTS port visits

PWC public works center; primary warfare commander; principal warfare commander

PWD public works department; programmed warhead detonation

PWR pressurized water reactor; prepositioned war reserve

PWRM prepositioned war reserve materiel

PWRMS prepositioned war reserve materiel stock

3-107 AUG 2006

PWRS prepositioned war reserve stock

PZ pickup zone

QA quality assurance

QC quality control

QE quadrant elevation

QLP quiet landing procedures

QMCS quality monitoring control system

QRLS quick reaction launch system

QRS quick reaction strike; quick reaction support

QS quick strop

QSL message acknowledgment

QSTAG quadripartite standardization agreement

QTY quantity

QUADCON quadruple container

QUAL qualification

R&A rescue and assistance

R&D research and development

R2P2 rapid response planning process

R/I SAT radar/IFF saturation

R/O receive only

R/T recorder/timer; receive/transmit; radiotelephone; receiver/transmitter

R/W rotary wing

RA ready alert

RA/TA restricted availability/technical availability

RAAWS radar altimeter and altitude warning system

RABFAC radar beacon forward air controller

RAC readiness acceptance check; radar azimuth converter; repair, alignment, and calibra-

tion; river assault craft

RAD restricted availability docking; radar data; required availability date; radiation ab-

sorbed dose

RADALT radar altitude

RADAY radio day

RAD-B expanded radar data

RADC regional air defense commander

RADCM radar countermeasures

RADCON radiation control; radiological control; radiological control team

RADDS radar display and distribution system

RADEX radar exercise

RADHAZ electromagnetic radiation hazards; radiation hazard

RADIAC radiation detection, indication, and computation

RADINT radar intelligence

RAL remote area landing

RALS remote area landing system

RAM random antiterrorism measures; rolling airframe missile

RAN reconnaissance attack navigator

RAP radar aiming point; reliable acoustic path; remedial action program

RAS replenishment at sea; rear area security

RASCAR rasterscan collision avoidance radar

RASP recognizable air and surface picture

RASS random access storage set

RAST recovery assist, securing, and traversing system

RAT record as target

RATCC radar air traffic control center

RATO rocket-assisted takeoff

RATS random access time slot

RATT radio teletype

3-109 AUG 2006

RAV restricted availabilities

RAW reconnaissance attack wing (Navy)

RAWS radar altimeter warning system

RAYCAS Raytheon collision avoidance system

RBA radar beacon acquisition; range, bearing, and altitude

RBE random bearing error; remain-behind equipment

RBL range and bearing launch

RBOC rapid blooming off-board chaff

RBS readiness-based sparing; radar bomb scoring

RBU rocket-thrown bomb

RCA radar-controlled approach; rate change authorization

RCC regional combatant commander; radar control computer

RCCOW return channel control order wire

RCEM regional contingency engineering manager

RCI remote control indicator

RCM reliability-centered maintenance

RCOH refueling complex overhauls

RCP remote control panel

RCR runway condition reading

RCS radar cross section; radio communication system

RCU remote communication unit: remote control unit

RCV receive

RCZ range to the first convergence zone

RD recognition differential

R-Day redeployment day

RDC rapid development capability

RDD required delivery date

RDF radio direction finding

RDG radar display group

RDIL radar detection, identification, and location; radio dual in line

RDM remote display monitor

RDMF rapidly deployable medical facility

RDP radar display processor; radar data processor

RDR radar detection range

RDS rapid deployment suite

RDSS rapidly deployable surveillance system

RDT rotational directional transmission

RDT&E research, development, test, and evaluation

RDX rapid denoting explosive

RDYALRT ready alert

REACQ reacquisition

READU ready duty; ready unit

REC regional evaluation center

RECO real estate contracting officer

RECON reconnaissance

REFTRA/RFT refresher training

REI range/elevation indicator

REM recovery exercise module

REP range error probable

RESCAP rescue combat air patrol

RESCORT rescue escort

RESEAD rescue suppression of enemy air defenses

RESS radar environmental simulator system

RF radio frequency; reserve force; response force

RFA request for assistance; restrictive fire area

RFATW radio frequency all the way

3-111 AUG 2006

RFC required functional capability

RF-CC radio frequency connected command center

RFCS radio frequency carrier shift

RFD remote firing device

RFF radio frequency finder; request for fire

RFI requests for intelligence; ready for issue

RFM radio frequency monitor

RFML RF memory unit

RFO reduced frequency oscillation

RFOM relative figure of merit

RFP request for proposal

RFS ready for sea

RFT radar free time

RG air ambulance

RGB red-green-blue

RGDCP range deception

RGL receive guard list

RGM ship-launched active/passive homing guided missile

RHAW radar homing and warning

RHAWS radar homing and warning system

RHI radar height indicator

RHIB rigid hull inflatable boat

RHR radar electrical rack (radar uplink/downlink)

RIB rubberized inflatable boat; rigid inflatable boat; router information base

RIC receiver interface control(ler); resource identification code

RICO regional interface control officer

RIED regulator in-line emergency disconnect

RIF rate input form; reduction in force

RIM ship-launched intercept guided missile

RIO radar intercept officer

RIU remote interface unit

RL reverberation level

RLD ready to load date

RLGN ring laser gyro navigator

RLPA rotating log periodic antenna

RLST reconstitution liaison support team

RLT regimental landing team

RM religious ministry; monostatic range; risk management

Rm equivalent monostatic range

RM/FTS religious ministry/fleet training strategy

RMA reliability maintainability analysis; rocket motor assembly

RMC regional maintenance center; rescue mission commander; reduced material condition

RMCC readiness and movement coordination center

RMI radio magnetic indicator

Rmin minimum firing range

RMOW radioman of the watch

RMP reprogrammable microprocessor

RMT religious ministry team; regional maintenance team

RMU refresh memory unit (NTDS)

RNDN DIV random diversity

RNR reverberation-to-noise ratio

RNS radar navigation set

RO range only

RO/RO roll-on/roll-off

ROB radar order of battle; reserve on board

3-113 AUG 2006

ROC regional operations center; required operational capability; rate of climb; reduced op-

erational capability program (NTDS)

ROD range of the day; report of discrepancy

ROE rules of engagement

ROF religious offering fund; rate of fire

ROICC resident officer-in-charge of construction

ROM read-only memory; right option matrix

ROR range only radar

ROS remote optical site; reduced operating status; remote optical sight

ROS-5 five-day reduced operational status

ROTHR relocatable over-the-horizon backscatter radar

ROU radius of uncertainty

ROV remotely operated vehicle; repair of vessels

ROZ restricted operations zone

RP reference position

RPG rocket-propelled grenade

RPL repair party leader

RPM random pulse modulation; reprogrammable microprocessor; revolutions per minute

RPMA real property maintenance and acquisition

RPPI repeater plan position indicator

RPV remotely piloted vehicle

RQMT requirement

RR reduction ratio

RRBT rapid response boarding team

RRC regional repair facility

RRDF roll-on/roll-off (RO/RO) discharge facility

RRDT random rotational directional transmission

RRF ready reserve fleet

radio reconnaissance platoon (USMC); repair and replenishment point

RRR rapid runway repair

RRS readiness reportable status; remote receiving station

RRT regional response team

RS rescue swimmer; receiving sensitivity

RSC radar set control

RSEAD reactive suppression of enemy air defense

RSG regional support group

RSL received signal level

RSO&I reception, staging, onward movement, and integration

RSP recognized surface picture; Red Switch Project (DOD)

RSR ready service ring; remote sensor relay

RSS root sum square; ready supply store; raster scan surveillance; radar systems supervisor

RSSC radar-sonar surveillance center (IUW)

RSSK rigid seat survival kit

RSSU remote site simulation unit

RST reset

RSTA reconnaissance, surveillance, and target acquisition

RT remote terminal

RTA receiver transmitter antenna

RTB return to base

RTCH rough terrain container handler

RTD radar track discriminator; return to duty

RTE run to enable

RTF return to force

RTG reconnaissance technical groups

RTI radar target identification

RTM radar terrain masking

3-115 AUG 2006

RTN relative threat number; received track number

RTOS real-time operating system

RTQ remote track quality

RTS readiness training squadron; real-time subsystem; remote tracking station; rapid tar-

geting system; run to stop

RTSL radar target signal list

RTSV real-time synthetic video

RTTY radio teletype

RU recovery unit; reporting unit

RUC reporting unit code; riverine utility craft

RUHP rescue unit home port

RUI remote under-ice

RUTH radio user tactical handbook

RV long-range seagoing rescue vessel; reentry vehicle; rekeying variable; rendezvous

RVAH reconnaissance attack squadron (Navy)

RVB calibrated decibel level

RVM rising vertical mine

RVT random velocity target

RWCM regional wartime construction manager

RWI radio wireline interface

RWR radar warning receiver

RWS range while search

RX receiver

RZ recovery zone

S salinity

S&C sensors and controls

S&A safe and arm; safety and arming

S&IS survey and investigating staff

S&M scheduling and movement

S&T scientific and technical

S/A surface-to-air

S/J signal-to-jammer ratio

S/L sea level

S/N signal to noise

S/P sound-powered telephone

S/S steamship

S/T short ton

S/V sailboat; sailing vessel

SA security assistance; selective availability (GPS); senior adviser; situational aware-

ness; staging area; stand-alone switch; spherical array; spectrum analyzer; search

angle; surveillance area; situation awareness; stand-alone

SAAM special assignment airlift mission

SAC special accounting code; scene-of-action commander; special agent in charge; sup-

porting arms coordinator

SAC(A) supporting arms coordinator (airborne)

SACC supporting arms coordination center

SACNET scene-of-action commander coordination and reporting

SAD submarine anomaly detection; sector air defense

SAD C&R sector AD coordination and reporting (net)

SADC sector air defense commander

SADSAC small acoustic device simulating aircraft carrier

SAEWS ship's advanced electronic warfare system

SAFE secure analyst file environment; selected area for evasion

SAG surface action group

SAGC surface action group commander

SAI sea-to-air interface; single agency item

SAIL ship's armament inventory list

3-117 AUG 2006

SAILORD sailing order

SAL small arms locker

SALM single anchor leg mooring

SALT supporting arms liaison team; strategic arms limitation talks

SAM surface-to-air missile

SAMAR ship assistance/maintenance and repair

SAMEX surface-to-air missile exercise

SAMF ship's air maintenance facility

SAMID ship's antimissile integrated defense

SANS ship arrival notification system

SAO special activities office

SAOCS submarine air optical communication system

SAP surface attack permit; simplified acquisition procedure; search action plan

SAPBB spherical array passive broadband

SAPNB spherical array passive narrowband

SAPO subarea petroleum office

SAR search and rescue; synthetic aperture radar

SARMC search and rescue mission commander

SARS shipboard automatic recorder system

SARSAT search and rescue satellite-aided tracking; search and rescue satellite

SARTF search and rescue task force

SARTS small arms remote target system; salvage assistance response team (MDSU)

SAS sensor acquisition section; single audio system

SASP single advanced signal processor

SASS special aircraft service ship; suspended array surveillance system

SASSY supported activities supply systems

SASWCS surface antisubmarine warfare control system

SAT security alert team; submarine advisory team; satellite; security alert team

AUG 2006 3-118

SATCOM satellite communications

SATHICOM satellite high command

SATNAV satellite navigation

SATRTN saturation

SATS short airfield for tactical support

SATVOX satellite voice

SATVUL satellite vulnerability

SAU search and attack unit; search attack unit; spectrum analyzer unit

SAV strike attack vector

SAVE shortages and valuable excess

SAW squad automatic weapon

SAWID shipboard acoustic warfare integrated defense

SB sideband

SBAB single beam all band

SBCS sea ballast control station

SBFC shore-based forces command

SBJ surface bounce jammer; sea bounce jammer

SBR special boat squadron

SBSB single beam single band

SBU small battle unit; special boat unit

sea combat; screen commander/coordinator; sea current; search and rescue coordina-

tor; station clock

SCA sound channel axis; shipping control authority; stabilizer control amplifier

SCAN switched circuit automatic network

SCAT small caliber action team; submarine classification and tracking

SCC shipping control coordinator; shipping coordination center; system coordinate cen-

ter; sea combat commander

SCC C&R sea combat commander, coordination and reporting (net)

SCCTV secure closed-circuit television

3-119 AUG 2006

SCD ship's center display

SCES single contact evaluation summary

SCG secondary control group

SCI sensitive compartmented information

SCIF sensitive compartmented information facility

SCIR subsystem capability impact reporting

SCL scene center line; standard conventional load

SCLSI ship configuration and logistics support information

SCLSIS ship configuration and logistics support information system

SCO service craft overhaul; secondary control officer

SCONUM ship control number

SCOT single channel objective terminal

SCP sensor correlation program; ship control panel; shipping control point

SCR silicon-controlled rectifier

SCREENEX screening exercise

SCRF small craft repair facility

SCS secure communication system

SCT shipping coordination team

SCU system control unit; signal conditioning unit

SD surface duct; self-destruct; search depth

S-D synchro-to-digital

SD/T surface detector/tracker

SDA ship's destination authority; source data automation

SDACC self-deploying aircraft control center

SDC sonar data computer

SDD SURTASS data distribution; sensor data display

SDDP shipboard data display computer

SDF surface direct fire (mode)

AUG 2006 3-120

SDLM standard depot level maintenance

SDM shore data manager

SDMS shipboard data multiplexing system

SDNS secure data network system

SDP shipboard data processor

SDR signal data recorder; supply discrepancy report

SDS speed-dependent source; satellite data system

SDSMS self-defense surface missile system

SDT search dwell time; steered directional transmission

SDV sea-air-land team (SEAL) delivery vehicle; submerged delivery vehicle

SDVTU SEAL delivery vehicle task unit

SDZ self-defense zone

SE signal excess

SEABEE Navy construction engineer; sea barge

SEABT Seabee team

SEAC submarine exercise area coordinator

SEAD suppression of enemy air defenses

SEAL sea-air-land team

SEAMEX seamanship exercise

SEAOPDET sea operational detachment

SEAR selected emitter automatic response

SEAVAN military container moved via ocean

SEC submarine element coordinator

SECEX security exercise

SECNAV Secretary of the Navy

SECREP secondary reparable

SECVOX secure voice

SED simulative electromagnetic deception

3-121 AUG 2006

SEDSCAF standard ELINT (electronics intelligence) data system codes and format

SEED supplementary emergency breathing device

SEEK survival, escape, and evasion kit

SEER submarine explosive echo ranging

SEEREP ships' essential equipment requisition expediting program

SEF sealift enhancement feature; shipboard engagement tactics

SEL selected equipment list; support equipment list

SELF strategic expeditionary landing field (USMC)

SELOR shipboard emitter locating format

SELRES selective reserve

SEP SOSUS estimated position; spherical error probable; sealift enhancement program

3-122

SERE survival, evasion, resistance, escape

SES signal exploitation system

SESS ship's signals exploitation space

SET shipboard engagement tactics

SETL security environment threat list

SEWC space and electronic warfare commander

SEWS secondary control workstation

SEXTANT signals exploitation tactical net

SEZ sector engagement zone

SF security force; special forces

SFCP shore fire control party

SFM supply and financial management

SGR strike group route

SGS shipboard gridlock system

SGS/AC shipboard gridlock system/automatic correlation

SGSA submarine-generated search area

SGSI stabilized glide slope indicator

AUG 2006

SHEDS ship/helicopter extended delivery system

SHEL shore ELINT (electronic intelligence) system

SHF super-high frequency

SHIP ALT ship alteration

SHM ship's heading marker

SHML ship's hazardous material list

SHORCAL shore-based consolidated allowance list

SHR shore

SHT special hull treatment

SI special intelligence

SIA submerged interference advisory

SIAC sensor integration and control

SIAF single integrated air picture

SIB ship's information book

SIC subject identification code; sonar information center

SID seismic intrusion device; standard instrument departure; sudden ionospheric distur-

bance; surveillance identification director (USMC); standard information display

SIF special intelligence file; selective identification feature

SIGINT signals intelligence

SIGS simulated imagery generation system

SIGSEC signal security

SIL signals identification list

SILO signal location

SIM selected item management; submarine intended movement

SIMAS sonar in-situ mode assessment system

SINEWS ship's integrated electronic warfare system

SINS ship's inertial navigation system

SIO senior intelligence officer

3-123 AUG 2006

SIOP Single Integrated Operational Plan

SIPRNET SECRET Internet Protocol Router Network

SIR search, inspection, and recovery

SIT special interest target

SITE shipboard information training and education

SITMAP situation map

SITOR simplex telex over radio; simplex teletype over radio

SITREP situation report

SIU sensor-interface unit

SIV special interest vehicle; special interest vessel; special operations intelligence vehicle

SIWAC signals warfare coordinator

SIZ seasonal ice zone

SJA Staff Judge Advocate

SJM selected job management

SK short range (mode)

SKE station-keeping equipment

SKED schedule

SL sea level; switch locator; source level

SLAM sea-launched air missile; short lofar altering message; stand-off land attack missile

SLAMEX sea-launched attack missile exercise

SLATE submarine-launched two-way expendable

SLB single-leg bearing

SLBM submarine-launched ballistic missile

SLC sidelobe cancellation; sonobuoy launch container; satellite link controller

SLCM sea-launched cruise missile; submarine launched cruise missile

SLCP ship lighterage control point; ship's loading characteristics pamphlet

SLD sonic layer depth

SLE sealift liaison element; spectral line equalization

AUG 2006 3-124

SLEP service life extension program

SLF special landing force

SLIC strategic logistics information cell

SLOC sea line of communications

SLOT submarine-launch one-way transmission

SLP seaward launch point; surface launch platform

SLPS ships loading plan sequence

SLR side-looking radar

SLS sonobuoy localization system

SLT scheduled launch time; sonobuoy launch tube

SLT&A search, localize, track, and attack

SM smoke marker; standard missile

SM&R source maintenance and recoverability

SMAA submarine movement advisory authority

SMASH EX search for simulated submarine casualty exercise

SMAW shoulder-launched multipurpose assault weapon

SMC system maintenance console

SMCM surface mine countermeasures

SMD strategic missile defense

SMDG standoff mine detection ground

SME subject matter expert

SMF system management facility

SMG scan mode gate; speed made good; submachine gun

SMIP ship's 3M improvement plan

SMP ship's mission profile

SMS surface missile system; system monitoring station

SMSF special mission support force

SMU special mission unit

3-125 AUG 2006

SNAIAS ship navigation and aircraft inertial alignment system

SNDL standard Navy distribution list

SNF strategic nuclear forces

SO special operations

SOA speed of advance

SOBT submarine onboard training

SOC satellite operations center; special operations capable; strike operations coordinator;

special operations craft

SOCA submarine operations coordinating authority

SOCC special operations control center

SOCEX special operations capable exercise

SOD sonar operator display

SODL submarine operational data link

SOE schedule of events; submerged operating envelope; status of emissions

SOF special operations forces; supervisor of flying

SOFAR sound fixing and ranging

SOFLAM special operations forces laser marker

SOFSA special operations forces support activity

SOI signal of interest; signal operating instructions; space object identification

SOLAS safety of life at sea

SOLE special operations liaison element

SOM system operator manual

SONET synchronous optical network

SOP standard operating procedure; standing operating procedure(s); ship's operational program

SOPA senior officer present afloat (USN)

SOPAREA submarine operating area

SOR specific operational requirement

SORAP signature overlay range prediction

SORM ship's organization and regulation manual; standard organization and regulation manual

SORTS Status of Resources and Training System

SOS special operation squadron (USAF)

SOSAT submarine operating satellite

SOSS sound search station

SOSUS sound surveillance underwater system

SOW special operations wing; standoff weapon; statement of work

SPA IUSS probability area; SOSUS probability area

SPC strength, power, and communication

SPE single-point expansion

SPEAR signal processing, evaluation, alert, and report

SPECOPS special operations

SPECWAR special warfare

SPF special purpose forces

SPGPM shots per gun per minute

SPIE special patrol insertion and extraction

SPINS special instructions

SPL sound pressure level

SPLX simplex

SPM secondary propulsion motor; single point mooring; single port manager

SPMCM self-protective mine countermeasures

SPOD seaport of debarkation

SPOE seaport of embarkation

SPRINT special psychiatric rapid intervention team

SPS standard positioning system; secondary propulsion system

SPW special warfare

SQAT ship's qualification assistance team

SRA shop replaceable assembly; ship restricted availability; shipping risk area

3-127 AUG 2006

SRAR short-range air reconnaissance

SRB scan relative bearing

SRC submarine rescue chamber; satellite resource controller

SRDT single rotational directional transmission

SRE survivor recovery element

SRI storeroom item

SRIP ship readiness improvement program

SRL sonobuoy receiver logic

SRM short-range missile

SROE standing rules of engagement

SRP sound reference point; sealift readiness program; seaward recovery point

SRR strategic readiness requirement

SRS sonobuoy reference system

SRT special reaction team

SRU ship repair unit; search and rescue unit; survivor rescue unit

SRX sonobuoy receiver set

sea state; submarine

SS (number) sea state (number)

SSA sector space averaging

SSAP submarine sonar adaptive processor; single advanced signal processor

SSB single side band

SSBN fleet ballistic missile submarine

SSB-SC single sideband-suppressed carrier

SSC surface surveillance coordination

SSCSMP surface ship combat systems master plan

SSCT special security communications team

SSCZ sector search convergence zone

SSDP sector search direct path

AUG 2006 3-128

SSDS ship's self-defense system

SSE sound speed excess; surface support element

SSECCS surface ship exterior communications and control system

SSEE ship's signals exploitation equipment

SSF sonar search frequency

SSG surface strike group

SSGN nuclear-guided missile submarine

SSIC standard subject identification code

SSIK shipboard sonobuoy interface kit

SSIXS submarine satellite information; submarine satellite information exchange system

SSL submarine safety lane

SSM surface-to-surface missile; ship system manual

SSN attack submarine, nuclear; Social Security number; space surveillance network

SSOA subsurface ocean area

SSP shipboard signal processor; sound speed profile

SSPS sonar signal processing set; sonar signal processing system

SSR secondary surveillance radar; supply support request; spin-stabilized rocket

SSRNM surface ship radiated noise measurement

sector scan surveillance; strike support ship; system supervisor station

SSSC surface, subsurface search surveillance coordination

SST sea surface temperature

SSTD surface ship torpedo defense

SSU special service unit

SSV surface sound velocity

SSWC surface/subsurface warfare coordinator

STA short time average

STAC submarine/surface tactical air control(ler)

STADD ship-towed acoustic deception device

3-129 AUG 2006

STANAG standardization agreement (NATO)

STAR standard attribute reference

STASS submarine towed array surveillance system

STB scan true bearing

STBD starboard

STC sensitivity time constant; sensitivity time control; short time constant

STD standard

STDA sonobuoy tactics decision aid

STDBY standby

STDL submarine tactical data link

STG special tactics group

STICCS submarine tactical information command and control system

STK strike

STL security team leader

STN standard track number

STO short takeoff

STOBT submarine tactical onboard training

STOI surface track of interest

STOL short takeoff and landing

STOM ship-to-objective maneuver

STOPS standoff optical surveillance system

STOSS shore targeting operations support system

STOVL short takeoff and vertical landing aircraft

STRAAD special techniques repair analysis aircraft damage

STREAM standard tensioned replenishment alongside method

STRIKEX striking force exercise

STT shore targeting terminal; single target tracker; small tactical terminal; special tactics

team

STTS subscriber transmission time slot

STU shore targeting unit; subscriber transmission unit; secure telephone unit

STW strike warfare; speed through the water

STWC strike warfare commander

SU search unit

SUA special use airspace

SUADPS shipboard uniform automated data processing system

SUBID submarine identification

SUBMISS submarine missing

SUBNOTE submarine notice

SUBOPAUTH submarine operating authority

SUBRASS submarine random access storage set

SUBROC submarine rocket

SUBSAM submarine surface-to-air missile

SUBSUNK submarine sunk

SUC surf current

SUCAP surface combat air patrol

SUDAPS shipboard uniform automated data processing system

SUPA surface ship patrol area

SUPP supplement

SUPPLOT supplementary plot

SUPPO supply officer

SUR surface

SURF standard underway replenishment fixture

SUROBS surf observation

SURPIC surface picture

SURTASS surveillance towed array sensor system

SUS signal, underwater sound

3-131 AUG 2006

SUU suspended underwing unit

SUW surface warfare

SUWC surface warfare commander

SUWWO surface warfare watch officer

SV sound velocity

SVC sensitivity/velocity control; service

SVM system validation model

SVP sound velocity profile

SVR surface vessel radar

SW shallow water; submarine warfare

SWAL shallow water attack craft, light

SWAM shallow water attack craft, medium

SWAP change of action commander

SWATH small waterplane-area twin-hull

SWC ship's weapon coordinator (NTDS); surface warfare coordinator

SWIR short-wave infrared

SWMCM shallow water mine countermeasures

SWOP special weapons ordnance publication (Navy)

SWS surface warfare supervisor

SWT servicewide transportation; search while track

SWZ special watch zone

SXBT surface expendable bathythermograph; shipborne expendable bathythermograph;

shipboard expendable bathythermograph

SYNTAC synthetic TACCAR

SYSADMIN system administrator

SZ surf zone

SZS surface zonal search

T&E test and evaluation

T/A table of allowance

T/B time-bearing

T/C tactical coordinator

T/F time-frequency

T/I track/illuminator

T/O takeoff; task organization

T/R time-range; transmit/receive

T/W thrust-to-weight

T:B turbine to blade

TA target acquisition; target angle; technical authority; target audience; technical ar-

rangement; theater Army

TA/RA technical availability/restricted ability

TAA towed array gain; towed array attenuator

TAB airborne tanker boom

TAC tactical advanced computer; terminal access controller; terminal attack control; ter-

minal attack controller; tactical computer; tactical air controller; tactical air com-

mander; tactical; transportation account code

TAC(A) tactical air coordinator (airborne)

TAC-3 third generation tactical advanced computer

TAC-A tactical air coordinator (airborne)

TACAID tactical aid

TACAIR tactical aviation; tactical air forces; tactical aircraft; tactical air

TACAMO Navy airborne VLF (very low frequency) relay system; take charge and move out

TACAN tactical aide to navigation; tactical air navigation; tactical air navigation systems

TACBUOY tactical buoy

TACC tactical air control center

TACC Afloat tactical air control center afloat

TACC Ashore tactical air command center ashore

TACCAR time averaged clutter coherent airborne radar

3-133 AUG 2006

TACCO tactical coordinator

TACCOM tactical communicator

TACCOPS tactical air control center operations

TAC D&E tactical development & evaluation

TACELINT tactical electronic intelligence

TACGRU tactical air control group

TACINTEL tactical intelligence; tactical intelligence information exchange system

TACLET tactical law enforcement team

TACLOG tactical-logistical; tactical logistics group

TACMAN tactics manual

TACMEMO tactical memorandum

TAC-N tactical advanced computer-navigation

TACOM tactical command

TACON tactical control

TACOPDAT tactical operational data

TACP tactical air control party

TAC RECCE tactical reconnaissance

TACREL tactical relay

TACREP tactical report

TACRON tactical air control squadron

T-ACS tactical auxiliary crane ship

TACSIG tactical signal

TACSUM tactical summary (report)

TACTAS tactical towed array sonar system; tactical towed array system

TACTERM tactical terminal: tactical termination

TACTS tactical aircrew combat training system

TACWAR tactical warfare model

TAD tactical decision aid; temporary additional duty

AUG 2006 3-134

TADIL A tactical digital information link alfa

TADIXS tactical data information exchange system

TADP tactical air direction post

TADREPS tactical data replay system

TADS target acquisition and designator sight

TAES theater aeromedical evacuation system

TAFDS tactical airfield fuel dispensing system

T-AFS combat stores ship (MSC)

TAG Tomahawk aimpoint graphic; target aimpoint graphic

T-AGOS tactical auxiliary general ocean surveillance; towed auxiliary general ocean surveillance

TAGS theater air-ground system

T-AH hospital ship

TAK cargo ship

T-AK container and roll-on/roll-off ship

T-AKR fast logistics ship

TALD tactical air-launched decoy

TAM Tomahawk asset management

TAMPS tactical automated mission planning system

TAN teletype alert network

TAO tactical air observation (net); tactical air observer; tactical air officer; tactical actions

officer

TAP transient acoustic processing; tactical analysis plot; training allowance pool

TAPBB towed array passive broadband

TAPNB towed array passive narrowband

TAPS towed array prediction system

TAR tactical air request; training and administration of reserves; target acquisition radar

TARC towed array receiver coupler

TARP towed array ranging program

3-135 AUG 2006

TARPS tactical air reconnaissance photo system; tactical air reconnaissance photography system

TARPS DI tactical air reconnaissance pod system digital imagery

TARS tethered aerostat radar system

TARSLL tender and repair ship load list

TAS target acquisition system; true air speed; towed array sensor

TASDA tactical airborne sonar decision aid

TASMO tactical air support for maritime operations

TASSRAP towed array surveillance system range prediction

TATC tactical air traffic control

T-ATF fleet ocean tug (MSC)

TAU transmitter antenna unit

TAV technical availability; total asset visibility

TAWS towed array workstation; target acquisition weapons software

TB/TF time-bearing/time-frequency

TBA table of basic allowance

TBL tactical bomb line

TBLUG tactical bottom loss upgrade

TBM theater ballistic missile

TBMD theater ballistic missile defense

TBO time between overhaul

TBP time-bearing plot

TBR time-bearing recorder

TBT target-bearing transmitter

TBUG tactical broadcasts user's guide

TC time charter

TC2S Tomahawk command and control system

TCA terminal control area

TCC tactical communications center; torpedo control console; transportation component

command; tactical communication console

TCDL tactical common data link

TCEM theater contingency engineering manager

TCG time code generator; track control group

TCM torpedo countermeasures

TCMD transportation control and movement document

TCN transportation control number

TCO thrust cut-off; tactical combat operations; tactical control officer; technical cogni-

zance office

TCP torpedo control panel; tactical contingency pod; timing control point

TCRP tactical command readiness program

TCS touch control steering; tactical command system; target control system

TCU teletype communications unit; terminal control unit; track control unit

TD turbine direct; tactical data

TDA torpedo danger area; tactical display area

TDBM tactical database manager

TDC track data coordinator

TDCC tactical data communications

TDDL time division data link

TDDO tactical data display operator

TDE tactical deception element; total delivery error

TDI target Doppler indicator

TDL threshold detection level; tactical data link

TDM time division multiplex; terminal dive maneuver

TDP tactical data program; temperature/depth profile

TDR threat detection range; track determinant range

TDS tactical data system; target designation system

TDSS tactical decision support subsystem

3-137 AUG 2006

TDTS tactical data terminal set

TDU trash disposal unit; towed drone unit

TDZ torpedo danger zone

TE task element; threat EMCON (mode); threat evaluation; trailing edge; turbine electric

TEA Tomahawk executive agent; touch entry array

TEC training exercise coordinator

TECHEVAL technical evaluation

TEG tactical employment guide

TELINT telemetry intelligence

TELNET telecommunication network

TEM target engagement message

TEMP temperature; temporary

TEMPALT temporary alteration

TENCAP tactical exploitation of national capabilities program

TEOB tactical electronic order of battle

TEPEE Tomahawk engagement planning and exercise evaluation

TEPP Tomahawk engagement planning package

TER target engagement radar

TERCOM terrain contour matching

TERI table of equipment ready issue; torpedo effective range indicator

TERS tactical event reporting system

TESE tactical exercise simulator and evaluator

TESP Tomahawk environmental support product

TEWA threat evaluation and weapons assignment

TEWDS tactical electronic warfare deception system

TF task force

TF/TG CMD task force/task group command

TFE transportation feasibility estimate

AUG 2006 3-138

TFG transportation facilities guide

TFLC task force logistic coordinator

TFMRS task force medical regulating system

TFMS tactical frequency management system

TFN target file number

TFP time-frequency plot

TFPMO task force preventive medicine officer

TFR terrain following radar

TFS task force surgeon

TFTA tactical fleet training aid

TG task group

TGBL through government bill of lading

TG CMD task group command

TG CRATT task group covered radio teletype

TGF TADIXS gateway facility

TGG temporary geographic grid

TGLC task group logistic(s) coordinator

TGO task group Orestes

TGP TADIXS gateway processor

TGSA task group submarine area

TGT target; turbine gas temperature

TGT POSIT target opposition

TGTTY task group teletype

TGU technical guidance unit

THADD theater high-altitude air defense missile

THDG true heading

THREATCON terrorist threat condition

TI target illuminator; threat integration

3-139 AUG 2006

TIAS target identification and acquisition system

TIB technical information base

TIBS tactical information broadcast service

TIC tactical information coordinator

TID tactical information display

TIDU tagged input data unit

TIDY teletypewriter integrated display

TIM TASS/TACTAS intended movement

TIMI technical information maintenance instruction

TIMS tactical information management system; tactical information management services

TIO target intelligence officer

TIP target information package; torpedo intercept point; technical improvement plan; tac-

tical intelligence product; target information package

TIPRS Tomahawk in-flight position reporting system

TIPS tactical imagery processing system; tactical information processing system

TIR Tomahawk inventory report; tactical interrogation report (USMC)

TIS thermal imaging sensor

TISS thermal imaging sensor system; thermal imaging surveillance system

TK track

Tk-BB bottom bounce track

Tk-CZ convergence zone track

Tk-DP direct path track

TKE track angle error

TL threat level; truckload; transmission loss

TLAM Tomahawk land-attack missile

TLAM/N Tomahawk land-attack missile/nuclear

TLAM-D Tomahawk land-attack missile submunitions (conventional submunitions)

TLCF TACINTEL (tactical intelligence) link control facility; TACINTEL link control

facilities

TLD thermo-luminescent dosimeter

TLE target location error

TLL tender load list

TLM target localization message

TLR top-level requirement

TLTI tracker long-time integration

TLZ tactical landing zone

TM tactical memorandum; transverse mercator; trainer module

TMA target motion analysis

TMAC TMA coordinator

TMCAP theater missile combat air patrol

TMD track management display; torpedo-mounted dispenser

TMDS Tomahawk mission display system

TMIP theater medical information program

TML theater mission library

TMN true Mach number

TMO traffic management office

TMPC theater mission planning center

TMPS Tomahawk mission planning system

TMS transportation management system; tactical mission software

T-net training net

TNS tactical navigation system; topographic noise stripping

TO transportation officer

TO&E table of organization and equipment

TOA time of arrival

TOC table of contents; tactical operations center

TOD time of day

TOF time of flight

3-141 AUG 2006

TOGW takeoff gross weight

TOH time overhead

TOI target of intention; target of interest; time of intercept; track of interest

TOO target of opportunity

TOP tactical operation plot

TOPO topographic

TOPS transportation operational personal property standard system; tactical operational

support; tactical optical projection system

TOR term(s) of reference; time of receipt; tentative operational requirement

TORP torpedo

TOS time of search; track on search; time on station

TOSP tactical ocean surveillance product

TOSS tactical optical surveillance system; tactical optical support system

TOT time of transmission; time on target; time over target

TOTC time-on-target compensation

TP transportation priority; total protection; technical publication; turn point

TPA TASS (towed array surveillance system) probability area

TPC tactical pilotage chart; two-person control

TPD tons per day

TPFDD time-phased force deployment data

TPFDDL time-phased force deployment data list

TPFDL time-phased force deployment list

TPK turns-per-knot

TPL target priority list

TPMRC theater patient movement requirements center

TPOA tactical plan of action

TPS TLAM planning system; test program set; Tomahawk planning system

TPSA TLAM planning system afloat

TPSB transportable port security boat

TP-T target practice-tracer

TPTRL time-phased transportation requirements list

TPT-T target projectile training-tracer

TR turbine reduction

T-R time range

TRA torpedo recognition and alert; technical review authority

TRACON training control; under training control of (commander)

TRAIS transportation reporting and inquiry system

TRANS transport

TRAP tactical receive equipment related applications; tactical recovery of aircraft and per-

sonnel; tactical related applications; tanks, racks, adapters, and pylons; terrorism re-

search and analysis program; threat research and analysis program

TRASS track random access storage set

TRBRG true bearing

TRCS transportable recompression chamber system

TRE tactical receive equipment

TREE transient radiation effects on electronics

TRF Trident refit facility; true radiated frequency; true restored frequency

TRIASP triple advance signal processor

TRIPOD tactical reconstruction information pod

TRITAC Difar triangular tactic; triangulation tactic

TRIXS tactical reconnaissance intelligence exchange system

TRK track

TRK SUP track supervisor

TRPU time reference PU

TRR tactical range recorder

TRRAPS transportable reliable acoustic path sonobuoy

TRS track replaces search

3-143 AUG 2006

TRT track resolution type

TRU true; Tomahawk receiver unit; target reporting unit

TS target strength

TSA time sharing algorithm

TSB transportation support battalion

TSC Tomahawk strike coordinator; TLAM strike coordinator

TSCM Tomahawk strike coordination module

TSD tactical situation display; tactical support device

TSE tactical signals exploitation

TSEC telecommunications security

TSES tactical signal exploitation system

TSH tri-SAR harness

TSO tactical sensor operator; tactical systems officer

TSOC theater special operations command

TSP transshipment point

TSR telecommunications service requests; turbine shaft rate; tactical sonar range

TSS trim, stress, and stability; total ship survivability

TST tactical support team; theater support team; time-sensitive target

TT target track; trajectory time

TTB true target bearing

TTC target track console; track-to-track correlator

TTDB theater targets database

TTGI time to go to intercept

TTGTD time to go to designation

time-to-intercept; time-to-impact

TTM tactical target materials; target through missile

TTP tactics, techniques, and procedures; trailer transfer point

Tomahawk transmitter system

TTT time to target

TTU transportation terminal unit

TTY teletype

TU task unit

TUDET type unit equipment detail file

TUL time until launch

TUM TCI update message

TVA target value analysis

TVDS towed vertically directed source

TVT target verification test

TW threat warning

TWA trailing wire antenna

TWCS Tomahawk weapon control system

TWDE total weapons delivery error

TWF tail warning function

TWR traffic control tower

TWS Tomahawk weapon system; track while scan

TWSRO track while scan receive only

TWT traveling wave tube

TX transmitter

TYCOM type commander

UAV unmanned aerial vehicle

UBA underwater breathing apparatus

UBFCS underwater battery fire control system

UC urgent change

UCAV unmanned combat aerial vehicle

UCP Unified Command Plan; universal communications processor

UCT underwater construction team

3-145 AUG 2006

UD underwater demolition

UDP user datagram protocol

UDT underwater demolition team

UE universal exciter

UEP underwater electric potential

UER unit equipment report

UFN until further notice

UHF ultra high frequency

UHT unit horizontal tail

UIC unit identification code

UICP uniformed inventory control point

UID unique identifier

UJTL uniform joint task list

UKL universal keyset logic

ULF ultra low frequency

ULN unit line number

UMC unit movement coordinator; unspecified minor construction

UMCM underwater mine countermeasures

UMG universal mercator grid

UMIB urgent marine information broadcast

UMIDS uniform microcomputer disbursing system

UMMIPS uniform materiel movement and issue priority system

UMO unit movement officer

UMS interim JTIDS message specification

UMT unit ministry team

UND urgency of need designator; urgency of need

UNIX uniplexed information and computing system

UNREP underway replenishment

UNTL universal naval task list

UPS uninterrupted power supply; universal polar stereographic

UQC underwater communication

URC underway replenishment coordinator

URG underway replenishment group

URN unsynchronized random noise

URO user readout; unrestricted operation

URP unmanned recovery platform

USA United States Army

USAF United States Air Force

USB upper side band

USCG United States Coast Guard

USMC United States Marine Corps

USN United States Navy; unit stock number

USNS United States Naval Ship

USS United States Ship

USW undersea warfare

USW(C) undersea warfare coordination

USW(R) undersea warfare reporting

USWC undersea warfare commander

UTC Coordinated Universal Time; unit type code

UTG user terminal group

UTL utility boat

UTM universal transverse mercator

UTO universal time observed

UTR underwater tracking range

UTS universal time standards

UUV unmanned underwater vehicle

3-147 AUG 2006

UV ultraviolet

UWC underwater communications

UWS underwater weapon system

UXO unexploded explosive ordnance; unexploded ordnance

V(A) aviation ammunition

V(W) ground ammunition

V/STOL vertical and/or short takeoff and landing aircraft

VA vital area

VANSLL van-loaded special load list

VARVAL vessel arrival data, list of vessels available to marine safety offices and captains of the

port

VASI virtual approach slope indicator

VASTAC vector assisted attack

VATS vertical-lift airfield for tactical support

VAW carrier airborne early warning squadron

VBS visit, board, search

VBSS visit, board, search, and seizure

VBW vertical beam width

VC voyage charter

VCTY vicinity (of geographic position indicated)

VDA variable dive angle

VDI visual display indicator

VDL video data link

VDM variable dive maneuver

VDP VLAD direct path

VDR variable depression receiver; variable depth receiver

VDS variable depth sonar

VDT variable depth transducer; video display terminal; variable depression transmission

VECTAC vectored attack

VEM versatile exercise mine

VERDIN VLF (very low frequency) multichannel submarine broadcast; VLF digital informa-

tion network

VERTREP vertical replenishment

VFCT variable frequency carrier telegraph; voice frequency carrier telegraph

VFK variable function key

VFR very far range; visual flight rules

VHF very high frequency

VHF(A) very high frequency (acoustic)

VHS vehicle handling system

VI vertical insertion

VIC vertical insertion commander

VID visual identification information display; visual identification

VIDS visual information display system

VIDS/MAF visual information display system/maintenance action form

VIM vibration isolation module

VINSON secure voice

VINT video integrate

VIPS voice interruption priority system

VISA voluntary intermodal sealift agreement program

VISCAP visual combat air patrol

VISINT visual intelligence

VL vector logic; antiair warfare grid center

VLA vertical launch antisubmarine rocket

VLF very low frequency

VLF(A) very low frequency (acoustic)

VLS vertical launch system

3-149 AUG 2006

Vmax maximum velocity

VMR volume movement report

V-N velocity normal

Vne velocity never exceed

VO observation squadron (Navy)

VOD vertical onboard delivery

VOI vessel of interest

VORTAC VHF omnidirectional range station/tactical air navigation

VP land-based maritime patrol aircraft

VPA voltage probe antenna

VPCAS fixed-wing computer assisted search

VPF variable message format

VPSA Vernier processor search aid

VR voyage repair; vane rate

VRS video recording system

VS carrier-based patrol aircraft

VSA vehicle stowage area

VSBY visibility

VSP Voith Schneider cycloidal propellers; variable speed pump

VT volunteer training

VTA vertical target angle

VTC vessel traffic control; vessel traffic center; video teleconferencing capability

VTF variable time fragmentation

VTO vertical takeoff

VTOL vertical takeoff and landing

VTR video tape recorder; video transfer range

VTRF variable time radio frequency

VTRF-NSD variable time radio frequency-non self-destruct

AUG 2006 3-150

VTS vessel traffic service

VTSD variable time self-destruct

VU volume unit

VUL vulnerability

VULREP vulnerability report

VZR VLAD zone range

VZW VLAD zone width

W/G wire guidance

W/L waterline

W/O without

WA/LD wide angle/low Doppler

WAA wide aperture array

WAC weapons assignment console; world aeronautical chart; world area code

WACBE world area code basic encyclopedia; world aeronautical chart basic encyclopedia

WAG world area grid

WAGB icebreaker (USCG)

WAH wide-angle homing

WAN wide-area network

WAP weapon assignment processor

WARM war reserve modes

WAS warhead add-on sensor; wide area surveillance; war at sea

WASEX war-at-sea exercise

WASP wide area surface picture; war air service program

WATCHCON watch condition

WB wideband

WBA waterborne assault

WBO wideband omnidirectional hydrophone

WBSLC wideband sidelobe cancellation

3-151 AUG 2006

WBSV wideband secure voice

WCA water clearance authority

WCC weapons control console; weapon control coordinator

WCF working capital fund

WCF-T working capital fund-transportation

WCO weapon control operator

WCP weapons classification defects; weapons control panel; weapons control processor

WCRP weapon control indicator panel; weapons control reference plane

WCS weapons control system

Wd damage width

WDB world data bank

WDE weapons directing equipment

WDR war damage repair

WDS weapons direction system

WE weapon effectiveness

WEC weapons engagement controller

WEP weapon; weapon entry point; water entry point

WEPEX weapons exercise

WES warhead electronics system

WEZ weapon engagement zone

WGS World Geodetic System

WGU weapon guidance unit

WHE weight handling equipment

WHEC high-endurance cutter (USCG)

WIA wounded in action

WIAC weapons integration and control

WIN worldwide military command and control system (WWMCCS) intercomputer

network

WL waterline

WLB seagoing buoy tender (USCG)

WLC weapon launch console

WLS workload share

WMCCS worldwide military and command control system

WMD weapons of mass destruction

WMDT wartime medical decontamination team

WMEC medium-endurance cutter (USCG)

WNE weapon navigation error

WOD wind over deck; word of the day

WOG weapons order generator

WP waypoint; white phosphorus; weapons posture

WPA water jet propulsion assembly

WPAL wartime personnel allowance

WPB patrol boat (USCG); Coast Guard patrol boat

WPN SAT weapons saturation

WPOD water port of debarkation

WPOE water port of embarkation

WP PD white phosphorous point detonating

WPS worldwide port system

WPT waypoint

WQC underwater telephone

WR war reserve; weapon radius; weapon requirement

WRA weapon replaceable assembly

WRL weapons release limit

WRM war reserve materiel

WRMR war reserve munitions requirement

WRP weapon release point

3-153 AUG 2006

WRR weapons release range; weapons response range

WSAT weapons system accuracy test

WSES surface effect ship (USCG)

WSF weapon system file

WSM waterspace management

WSRT weapon system readiness test

WT gross weight; weight

WTA water terminal authority

WTCA water terminal clearance authority

WTU weapons and tactics unit

WVR within visual range

WVS world vector shoreline

WWC weapon control console

WWMCCS worldwide military command and control system

WX weather

XBT expendable bathythermograph; expendable bathythermograph temperature; expend-

able bathythermograph transceiver

XCOM exterior communication

XCVR transceiver

XHF extra high frequency

XMFR RECT transformer rectifier

XMIT transmission

XMT exempt

XO executive officer

XPNDR transponder

XSIT transit

XTAL crystal

XTK cross track angle

YAG miscellaneous auxiliary (self-propelled)

YC open lighter (non self-propelled)

YCF car float (non self-propelled)

YCV aircraft transportation lighter(non self-propelled)

YD floating crane (non self-propelled)

YDT diving tender (non self-propelled)

YF covered lighter (self-propelled)

YFB ferryboat of launch (self-propelled)

YFD yard floating drydock (non self-propelled)

YFN covered lighter (non self-propelled)

YFNB large covered lighter (non self-propelled)

YFND drydock companion craft (non self-propelled)

YFNX lighter (special purpose) (non self-propelled)

YFP floating power barge (non self-propelled)

YFR refrigerated covered lighter (self-propelled)

YFRN refrigerated covered lighter (non self-propelled)

YFRT covered lighter (range-tender) (self-propelled)

YFU harbor utility craft (self-propelled)

YG garbage lighter (self-propelled)

YGN garbage lighter (non self-propelled)

YHLC salvage lift craft, heavy (non self-propelled)

YLLC salvage lift craft, light (self-propelled)

YM dredge (self-propelled)

YMCL salvage lift craft, medium (non self-propelled)

YNG gate craft (non self-propelled)

YO fuel oil barge (self-propelled)

YOG gasoline barge (self-propelled)

YOGN gasoline barge (non self-propelled)

3-155 AUG 2006

YON fuel oil barge (non self-propelled)

YOS oil storage barge (non self-propelled)

YP patrol craft (self-propelled)

YPD floating pile driver (non self-propelled)

YR floating workshop (non self-propelled)

YRB repair and berthing barge (non self-propelled)

YRBM repair, berthing, and messing barge (non self-propelled)

YRDH floating drydock workship (hull) (non self-propelled)

YRDM floating drydock workship (machine) (non self-propelled)

YRR radiological repair barge (non self-propelled)

YRST salvage craft tender (non self-propelled)

YSR sludge removal barge (non self-propelled)

YTB large harbor tug (self-propelled)

YTL small harbor tug (self-propelled)

YTM medium harbor tug (self-propelled)

YW water barge (self-propelled)

YWN water barge (non self-propelled)

ZOF zone of fire

ZPU antiaircraft gun towed

ZULU Greenwich mean time

ZZ force center

LIST OF EFFECTIVE PAGES

Effective Pages	Page Numbers	
AUG 2006	1 thru 12	
AUG 2006	1-1, 1-2	
AUG 2006	2-1 thru 2-70	
AUG 2006	3-1 thru 3-156	
AUG 2006	LEP-1, LEP-2	

LEP-1 AUG 2006

INTENTIONALLY BLANK

AUG 2006 LEP-2

NTRP 1-02 AUG 2006